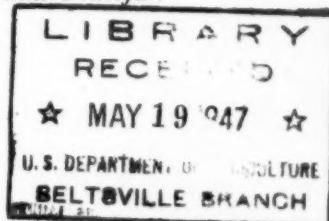




AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

MAY 15, 1947



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MAY 15, 1947

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AMERICAN NURSERYMAN

F. R. KILNER, Editor

Editorial

CAN COSTS BE CUT?

Observations in the preceding issue on the trend of nursery stock production and its relation to prices contained a statement that, if catalog quotations were revised upward in the past few years to reflect increasing costs, there was little in the present picture to warrant revising them downward. Wages continue high, and good help is still hard to get, while supplies and equipment cost as much as ever.

Yet if government officials and some other folks harp on keeping prices down as necessary to avoid a business recession, can nurserymen do nothing about it?

This is a subject on which general statements are dangerous. Not only do price structures vary according to industries, but firms differ in their price policies in the same field. One motorcar manufacturer advertises a slight reduction in price, while another announces that the new union wage contract will make necessary higher prices for cars. Those merchants who pushed up prices because the public bought regardless of price must expect a decline as consumer pressure lessens. Those sellers who kept prices under control may actually face the unenviable necessity of raising prices now, as costs advance further. In this field, one would need to differentiate between different types of nursery firms, and the different types of stock handled.

Unquestionably, the public not only has ceased spending lavishly, but is shopping around to find standard merchandise at fair prices. This critical spirit must be exercised by nurserymen in the operation of their own enterprises.

In spite of high hourly wage rates, costs can be reduced by getting more output per man-hour and by increasing efficiency in other ways. There are a number of things which nurserymen can do to keep prices down.

Production should be based upon economical operation, rather than on maximum output. The entire organization, in the office and in the field, should be conscious of costs.

More expensive materials and practices that were employed in wartime to circumvent shortages should be discontinued as soon as possible.

Laborsaving machinery should be employed where it can be found, and

The Mirror of the Trade

obsolete high-cost equipment should be replaced.

Inefficient employees acquired during the labor shortage should be replaced or trained in better ways.

Business methods need overhauling. Systems have fallen by the way-side, and wasteful processes were followed when labor was scarce. The management of every business enterprise needs to examine its procedure from start to finish. Here, more than in any other place, can savings be made.

Reduction in costs will make possible lower prices or better quality products, or both. Either creates an incentive to buy on the part of the public.

Increased volume, usually accompanied by lower cost per unit of sales, is a sure way to lower prices without sacrifice of profit.

Early action toward efficiency and economy will enable nurserymen to keep pace with the public drive to keep prices down. That is to be preferred, and is safer financially, than a cut in profit margin.

SPRAY THE ELMS.

The slow spread of the Dutch elm disease and phloem necrosis of elms is bringing fear into many communities where avenues or highways are beautiful with stately rows of American elms.

Their fear is reflected in the widespread discussion of trees suitable for street planting which will come nearest to the beauty of the American elm and insure against total loss from an epidemic disease. Recommendations which have come from nurserymen's discussions were presented in an article in the May 1 issue. It is supplemented in this issue by excerpts from a bulletin recently issued by the Morton Arboretum.

In the eastern part of the country the canker stain of London plane and, earlier, the chestnut blight furnished other examples of the danger in too much uniformity of street planting. A warning of this risk is reiterated in a clip sheet from the United States Department of Agriculture released this month. "For permanent beauty," it states, "it is far safer not to have more than a few blocks of uniform plantings in cities, and not more than a few miles at most, on country highways." Dr. Curtis May is quoted: "The use of diversified plant material is cheap insurance against total loss from an epidemic disease."

One paragraph in the U. S. D. A. release reads: "Scientific studies have developed practical sanitation methods that will save most of the London planes. Breeding resistant elms and spraying with DDT offer encouragement to elm lovers."

Spraying with DDT, it should be explained, is not a cure or a preventive of either phloem necrosis or Dutch elm disease. But the scientists doing research work on these diseases think both of them may be transmitted by an insect not yet identified. If this theory is correct, spraying elm trees with DDT will come the closest of any possible preventive against these diseases, by killing whatever insect is responsible for their transmission. The recommendation is not given with any certainty of success, but it offers the only hope thus far given of saving the elms that make the avenues of some communities famous.

SPRAY TRADE NAMES.

The number of new insecticides, fungicides, weed killers and fumigants which recently have been introduced or are in prospect of introduction poses a problem in trade names that is confusing, to say the least.

DDT alone gave rise to hundreds of new brands of insecticides for various purposes. How the nurseryman might recognize which were useful to him and what strength of each preparation to use is a poser. Then along come such tongue twisters as hexaethyl tetraphosphate, dinitro-ortho-cyclohexylphenol and a dozen or so other chemicals, giving rise to a further multiplicity of brand names, and we are lost.

Some of the brand names bear some relation to the chemicals they contain, and some do not. The more responsible manufacturers indicate in their instruction leaflets and on the container labels what chemicals are contained in the product and what its strength. Perhaps this should be made necessary by law, just as in the case of drug products sold under brand names.

The suggestion of the American Fruit Grower is that each group of material be given a number—*insecticides* in a series 10 to 20, *fungicides* 30 to 40, etc.—and a nicotine compound would bear the number 11, DDT would carry 12, sulphur would be marked 35, for instance. Then we should need a chart of numbers, or a memory nearly as good as that to recall the chemical constituents.

Comments on Holly Species

By Gustaf E. Malmborg

The holly has its greatest distribution in South America, where it also has its greatest commercial value. The most common species there is *Ilex paraguariensis*, from the leaves of which is made a tea, called mate, or Paraguay tea, which is popular in South American countries.

In South America, in Brazil in particular, sixty species of hollies are to be found, but of course they are tropical; so we are not concerned with them here. In China, Japan and Hong Kong there are forty described species. For instance, from China we have the *cornuta*, *fargesi*, *pernyi* and *pedunculosa* species. From Japan come such species as *crenata*, *integra*, *latifolia*, *macropoda*, *sieboldii* and *sugeri*. From the Himalayas come two species that are tender to a certain degree, *dipyrena* and *Insignis*. There are two species from the Canary islands, with *perado* and *maderensis* from Madeira, the two last-named being not too hardy, but I grow them at the Masonic homes at Elizabethtown, Pa. Then, of course, there is *Ilex aquifolium* from Europe, the queen of them all.

In North America there are a few good hollies, too, *Ilex opaca* being the most important in the temperate zone of the United States. Its range is from Massachusetts to Florida and Texas, and it reaches its largest dimensions in the bottom lands of Arkansas and Texas, but also growing to considerable size in Florida. Another evergreen ilex that ranges from Massachusetts to Florida is *Ilex glabra*, a fine plant for low screens or in limited numbers in foundation plantings. In the south there are three hollies worthy of mention, *cassine*, an evergreen called the dahooon holly, and *vomitoria*, the yaupon. Both the dahooon and yaupon hollies range from Virginia south to Florida and Texas. *Ilex caroliniana*, or as some people would want it called, *Ilex ambigua*, is a deciduous holly that appears from North Carolina south to Florida and Texas. There is a fourth one, not so important, that grows in Virginia and Louisiana. In fruit it closely resembles the shadblow, from which tree it derives its name, *Ilex amelanchier*. It would be a useful plant for gardens south of Washington, D. C.

Deciduous hollies can be grown easily in the vicinity of Elizabethtown. *Ilex verticillata*, the black alder, grows from Connecticut to

Florida and is without a doubt the most common of the deciduous hollies. *Ilex laevigata*, the smooth winterberry, can be found from Maine to Georgia. The range of *Ilex decidua* is from Virginia to Florida, but it is perfectly hardy at Elizabethtown. It is commonly called the possum haw.

It is well known that the holly is one of the oldest plants in cultivation. The Greeks knew it before the Roman empire was established, and up to the time when Linnaeus gave the genus the name of *ilex*, derived from a Celtic word meaning spine (referring to the spiny foliage of most of the genus), the hollies were known under the name of *agria*, meaning wild from the fields. From this latter word were derived the names *agri-folium* and *aquifolium*. The hollies grow to a ripe old age, and some trees in southern Europe are eighty feet tall and 800 years old. One tree in Rome is said to be 1,200 years of age, but I do not know if it is still

there. This one is, of course, an *Ilex aquifolium*. Even in this country we have some quite large hollies, and in near-by York county there are three trees of considerable size. The one at Indian Steps lodge, an *Ilex opaca*, is a fine specimen which must be forty-five to fifty feet high. All three hollies must be about 200 years old, and they are magnificent trees.

Methods of Propagation.

A few methods of propagating hollies should be mentioned. Propagation is usually done either by seeds, cuttings or grafting. Where true species are required, by seeds is as good a way as any, especially when plants in quantity are wanted, but it will, of course, take several years before the sexes of the plants can be determined. When a large amount of seeds is to be sown, they should be stratified in sand. It is a good idea to mix enough peat moss in the sand so that the mixture is quite acid, for it aids



Ilex Aquifolium Pyramidalis Compacta.

in germinating the seeds the following spring when the mixture of seeds and sand is sown in nursery beds. It takes at least two years to germinate, and many seeds may germinate the third year. On a small scale, the seeds are sown in flower pans or flats and left fully exposed to the weather the first winter. The following winter they should be kept at about or a little above freezing temperatures, and they will begin to germinate in January or February of the second year.

Of course, for all varieties, clones and types vegetative means of propagation are necessary. Propagation from cuttings is by far the most common method. The rooting medium may be either pure acid sand, sand and peat moss in a half-and-half mixture, or if one is ultramodern, vermiculite. I have found that if experienced help is available, sand and peat moss may be used, but if there are only inexperienced employees to do the watering, it is wiser to use pure sand. It is much easier to use too much water than to use too little, and with the mixture of sand and peat the chances are that the bench will soon become waterlogged. The most important thing to do before inserting cuttings is to sterilize the cutting bed with potassium permanganate. This is important, especially if cuttings have been in the bed before. I use about as many crystals as can be placed on one-half inch of a pocketknife blade to two gallons of water. In watering these cuttings, the most important requirement is to use water at room temperature. If cold water directly from the hose is used, the cuttings will take much longer to root. It has been proved that cuttings from one tree may root easily and cuttings from others may be difficult to root. For best results, it is therefore important to keep a record showing from which tree the cuttings were taken. The time to take cuttings varies with the climate. In our vicinity the best time would be the latter part of October to the middle of November. We put the cuttings in a greenhouse in about 65-degree heat, and we use a heel cutting and Rootone for quick results.

The holly is not fussy when it comes to soil, but it does best in moist, good loam. Nevertheless, it is often found growing naturally on both sandy and clay soils and can even be grown on limestone soils. However, wherever planted, it always reacts favorably to a heavy mulch of oak leaf mold.

A few insects sometimes attack the hollies. A scale insect, *Aspidiotus britannicus*, infests leaves and

branches, but is easily controlled by use of two per cent miscible oil before growth starts or a nicotine spray during the growing season. There is also the holly fly, or holly leaf miner, *Phytomyza ilicis*. If the attack of the leaf miner is severe, it can be controlled by a nicotine and soap spray. If the attack is light, the affected leaves may be hand-picked.

Last year I noticed a new insect on a few of our aquifoliums. It was a webworm, similar to the barberry webworm. This pest may be controlled either by dusting with a rotenone dust or arsenicals. I make up my own dust of nine parts lime (hydrated), one part arsenate of lead and three to four parts sulphur (fine-ground).

Ilex Aquifolium.

After many years of cultivation, the English holly, usually called com-



F. G. James.

mon holly in Europe, has given rise to many different varieties. As early as 1737 there were thirty-three distinct varieties, and in 1770 forty-two varieties were described. At present there are about 100 distinct varieties of *Ilex aquifolium* in cultivation.

I shall mention a few with which I am familiar that are now growing on the grounds of the Masonic homes at Elizabethtown. The one that seems to be hardier than any of the other forms of aquifolium is *pyramidalis compacta*. The first few years it may look rather straggly, but eventually it shapes up beautifully. It is a strong grower, and some years when we had ample rainfall this plant made a 2-foot growth. It has, however, a slight tendency to grow a little late in the fall, so that the fresh shoots may be caught by the early

frosts. The ripe growth is hardy enough; so the plants are usually not disfigured. This variety is female and bears profusely.

Albo-marginata is, as the name says, a variety with a white margin. Unfortunately, this is not very hardy with me. When well grown, however, it is one of the prettiest.

One of the oddest-looking of the aquifoliums is the hedgehog holly, *Ilex aquifolium ferox*. With a bunch of teeth on the upper convex side of the leaves, it is easy to identify, and the name hedgehog holly is an appropriate one.

Another form of aquifolium that has proved good with me is *camelliaefolia*. As this plant grows to maturity the spines disappear almost totally, thus accounting for the name. The new growth is beautifully colored, shining red, and it is one of the most striking forms. This is also a female, but the one preceding, the *ferox*, is a male plant.

We have a yellow-fruited variety.
[Continued on page 46.]

F. G. JAMES.

Now serving his third term as president of the San Diego chapter of the California Association of Nurserymen, which is to be host at the state convention, September 29 to October 1, at San Diego, F. G. James is partner with his brother, E. E. James, in the ownership and operation of F. W. James & Son, nurserymen and florists, at National City, Cal.

Born at London, England, in 1908, F. G. James went to National City, Cal., five years later. After graduation from high school he assisted his father, the late F. W. James, for several years before deciding to enter the nursery business. He attended classes at the University of California college of agriculture at Davis, majoring in landscape design, with supplementary courses in plant materials, entomology, plant pathology and genetics.

He was employed by the state of California as a plant quarantine officer for two years until 1936, when he entered into partnership with his father. Upon his father's death, his brother, E. E. James, acquired a half interest in the business, which now operates a retail nursery and flower shop at National City and a branch nursery at Coronado, Cal. In addition lemon and avocado orchards are operated, and some truck crops are farmed.

DICKERSON NURSERIES have been established at Peoria, Ill., by F. B. Dickerson.

Washington Budwood Certification

By Earle C. Blodgett

The quality and health of the nursery stock which an orchardist plants are among the most important factors involved in establishing a successful orchard. The occurrence of a considerable number of virus diseases and bud-perpetuated disorders in fruit trees makes the selection of scion wood of utmost importance, since most of these diseases are transmitted or perpetuated during propagation of nursery stock. The presence of virus diseases in pollinator trees or in wood used in top-working to other varieties has caused serious damage in many instances. Furthermore, it is well established that at least one virus may be seed-borne, as in the case of ring spot of sweet cherry.

Principally because of the recent information on many of these problems and the sound evidence that special attention should be given to more care in budwood selection, a program designed for the improvement of nursery stock is being developed in several states. Much of the incentive has been furnished by progressive and enlightened nurserymen and growers who see the advantages of such a program. One of the significant reasons is the attitude of quarantine and regulatory officials, who have resolved that education and research programs must be enlarged to provide needed information. It is expected that development of a similar program among the nursery-producing states will prevent the necessity of stringent quarantines or regulations that cause undue or unnecessary hardships.

The Washington department of agriculture has proposed a nursery program to be followed in regard to budwood certification for fruit tree stock. Control of bud-perpetuated disorders, chiefly the virus diseases, is the main interest. The actual program which is decided upon must be worked out carefully as a cooperative effort by those concerned.

This is a tentative proposal for such a program. Although all the available facts cannot be given here, this is the proposed plan, with

Address delivered by Dr. Earle C. Blodgett, associate plant pathologist at the irrigation branch experiment station of the State College of Washington at Prosser, at a recent joint meeting of the Washington State Nurserymen's Association and the Washington chapter of the American Association of Nurserymen.

rather definite requirements, which the Washington state department of agriculture, in cooperation with other state, federal and commercial agencies, is suggesting and initiating for the purpose of assisting nurserymen in securing suitable scion wood and ultimately improving the quality of nursery stock and orchards.

The provisions established apply to any person or firm operating in the state of Washington producing or handling fruit tree understocks or propagated varieties for sale. Failure to comply with the provisions may necessitate regulatory action and the revocation of licenses.

California requires a certificate for peach stock from Washington in regard to peach wart, a virus disease. Recently a shipment was held up until it was determined that a certificate could be issued, based on the fact that a department of agriculture official had examined the source of budwood in question. Failure to comply with accepted rules will provide a difficult situation for nurserymen who ship out of the state. It is quite likely, too, that the probable presence of the little cherry disease in the northwest will have an effect on plans for budwood selection.

According to the estimates of six of the leading nurseries of the state, the following varieties and numbers of trees were to be propagated during the 1946 season:

Peach—Hale, Elberta, Early Elberta, Redhaven, Rochester, Halehaven, Rio Oso Gem, Veteran and Slappey. These varieties represent over 281,000 trees, while six other varieties bring the total to almost 300,000 trees. Most of the understock is Lovell.

Cherry—Bing, Lambert, Royal Ann, Deacon, Black Tartarian and Black Republican. These varieties represent a total of 99,000 sweet cherry trees, while about 30,000 Montmorency are to be propagated. The stock is both Mahaleb and Mazzard.

Apricots—Wenatchee Moorpark, Tilton, Riland, Sun Glo and Blenheim. The total is about 120,000. Most of the stock is peach.

Plums, prunes—Italian, Early Italian and Santa Rosa. The total of the varieties is about 83,000 trees. The stock is both peach and Myrobalan.

It will be seen that these trees represent about 6,300 acres of future or-

chards. It is readily apparent that there is much to be gained by having these trees come from good stock. It is also certain that a large number of suitable, disease-free trees are necessary to secure sufficient budwood. This phase of the program is the most important of all, and it is the most difficult, as shown by observational evidence during the 1946 season.

In general, nurserymen in Washington, and no doubt in other states where a tentative program has been in effect, are cooperative. But co-operation will last only as long as reasonable procedures are advocated and backed with sound counsel and firm enforcement, even though at first it is on a voluntary basis. In the early stages of the program, attention to certain of the more or less minor or masked diseases must be somewhat neglected, because of lack of time and facilities for proper indexing. A uniform, practical plan for certifying that fruit nursery stock is essentially free from virus or bud-perpetuated diseases will be the result of compromises between an ideal and one which is workable. There will be, of necessity, some conflict between scientific and practical application. It should be pointed out that the entire program of nursery stock improvement and certification is a complex thing. Problems cannot be solved at once by any plan nor by any amount of earnest endeavor. All details of the final plan which will be followed by the Washington state department of agriculture cannot be given now, but the principles which guide the program can be quite clearly defined. The following minimum requirements seem essential.

Seed Sources.

Insofar as possible, all prunus seed sources will be determined, and the producing trees will be examined and indexed, if this is considered desirable. Trees affected by virus or bud-perpetuated disorders will be either destroyed or will not be used for seed source.

Scion Wood Sources.

Budwood sources must be examined and approved by competent personnel. Nurserymen must estimate in writing by May 1 the number of trees of each variety to be propagated. In case of spring propagation, the requirements must be met the previous season. Nurserymen must

[Continued on page 48.]

Prize Designs of Small Home Grounds

The one foreign entry in the regional competition for designs of small home grounds sponsored by the American Nurseryman and the National Landscape Nurserymen's Association received an honorable mention, with cash award, from the judges. This is the design for a colonial style house in zone 5, by Maximino Alvarez-Laviada of Caracas, Venezuela, reproduced on the opposite page. He terms it a Mediterranean garden design. Zone 5 em-

braces Florida, the Gulf coast, southern Texas and the lower half of coastal California.

The terms of the contest were that the colonial style home should be located in a lot gently rolling in front and reasonably level to the back lot line. The lot was 50x150 feet, the house to be placed no nearer than thirty feet from the street or nearer than five feet to side lot lines. The single-car detached garage could be located as desired by the designer

with access from the front. These home grounds were for a middle-aged couple having special pride in their surroundings. Provision was recommended for a vegetable garden, which might later be used as a flower garden. The couple's grown children have moved away from home, but return for frequent visits; so their possible requirements were to be considered.

The comments of the designer of this plan appear below.

COLONIAL STYLE HOUSE, ZONE 5. BY MAXIMINO ALVAREZ-LAVIADA, CARACAS, VENEZUELA.

The garden in front of the house is of extreme simplicity: A lawn extends on each side of the path; hedges of myrtus reach to a height of three feet; near the beginning of the path are two steps, made of red tiles with white mortar, and two whitewashed lateral rectangular prisms. Close to the front of the house the bushes are arranged and trimmed to form two squares, inside which simple flowers may be planted according to the season, and at each extremity, close to the steps, are two laurels trimmed to the shape of a sunshade, three feet high. The pergola, which is before the garage door, forms part of the front view, and its jasmine vines hide the garage roof.

One of the porch exits leads to a stone patio and the other to a tiled patio. The 3-foot walls, which partially close the patios at certain points and upon which, at the ends, are placed pots of flowers, are of tiling coated with white lime, as are also the pergola columns.

The patio near the garage has a floor made of pieces of stone of unequal size with straight sides and colored a light brown or toasted shade. The floor of the patio which has the fountain is paved with white stones $8\frac{1}{2} \times 8\frac{1}{2}$ inches and orange stones 4x4 inches.

In the center of the paved patio is a marble fountain with central spray. So that a model of this fountain with correct proportions may be obtained, the writer selected the fountain which figures in the popular work, "Patio Gardens," page 98, by Morgenthau Fox (published in New York). This fountain is the same as that in the grilled patio of the Alhambra.

At each corner of the paved patio is a low-cut bitter orange tree. The soil around the base of these trees is loose and is surrounded with an orange-colored unrelieved border.

The two paved seats at each end of the paved patio are of the style shown on page 42 of the book previously referred to, the stones being white, orange and blue or, better still, magenta.

The flower pots are colored chrome-yellow when they contain pelargoniums and magenta when they contain calendulas with orange-colored flowers.

The lateral walls formed by the pittosporums which surround the paved patio should be allowed to grow to a height which will hide the garage wall from the patio.

The seat which is against the back wall of the garage in a corner of the vegetable garden is of white tiles, and an example of it may be seen on page 42 of the book above-mentioned. The vegetable garden plots are

bordered by tiles of the same color as those used in the construction of the seat. The soil for the paths is of toasted color, and the small place in the center, where the wellhead is situated, is covered with white pebbles.

The largest patio, situated on the same lower plane as the vegetable garden, which is reached from the vegetable garden through an opening cut in the intermediate wall formed by the cupressus, and from the orange tree patio by the central stairway, is tiled with red tiles placed in zigzag form. The side and end which enclose this patio are composed of trimmed cupressus; the side walls are seven feet high and the end wall, ten feet.

In the central line of this red patio are distributed three plots of fine grass, and upon these plots, at ground level, are three small water baths constructed of white marble or of blue and white paving stone in the style of Seville, for the cultivation of tulips or water flowers.

The small tiled wall, which forms a socle in the end wall of the red patio, makes a box disposed in such a way that the projecting parts permit the placing of two banana trees, one at each side, and two espurces with greenish-yellow flowers, one at each side of a bench, also tiled, which occupies the center, in symmetrical form. The height of the small wall is about three feet. Its stones are blue and white, as are those of the bench, and a model of it may be seen on page 74 of the book already referred to. It should be borne in mind that the openings which are made in the ground for the purpose of receiving plants should not be finished off with raised edges, as water falling on the paths should run to the soil at a lower level.

The four characteristics of the Spanish Mediterranean garden—fresh surroundings, fragrant air, color and movement at different levels—are combined here.

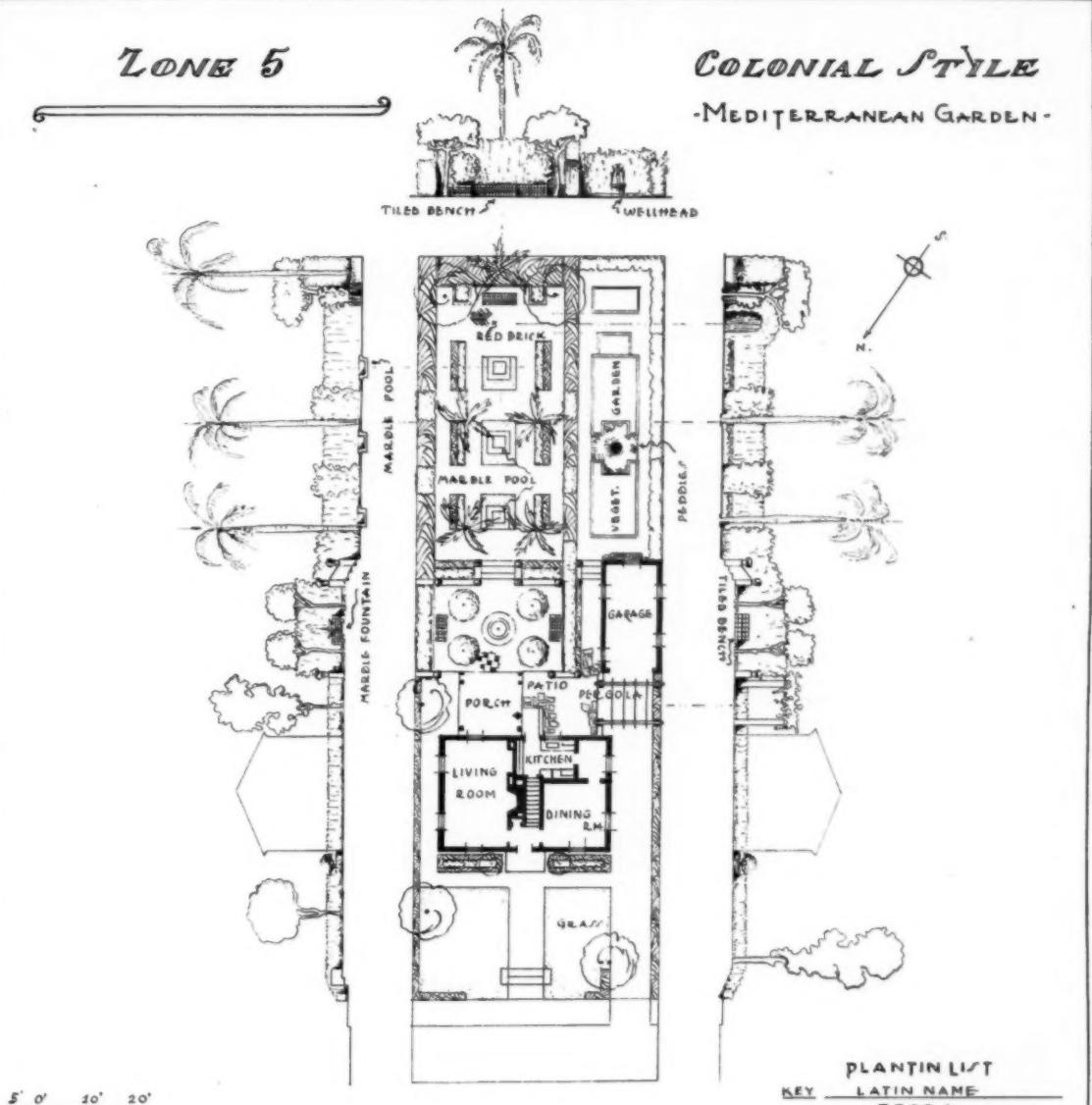
The author would like his readers to consider the view which the garden offers, looking from the porch toward the bench at the end; the freshness which may be enjoyed in the orange patio, accompanied by the murmur of the fountain as the water falls into its marble bowl; the air perfumed by the heliotropes growing under the small balconies which look onto the red patio, and by the pittosporums which surround them, as well as by the orange blossoms and jasmines which cover the near-by pergola. Also worthy of note is the view offered from the bench at the end of the garden toward the fountain, which plays under the bower of the orange trees, growing there on the highest plane.

Maximino Alvarez-Laviada.

ZONE 5

COLONIAL STYLED

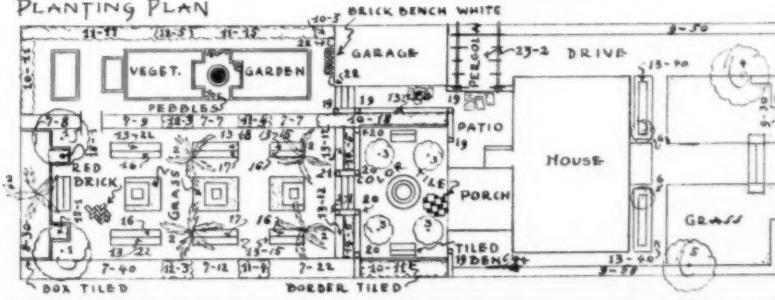
-MEDITERRANEAN GARDEN-



NOTE:

The floor tiled is white and orange. The border-tiled are orange color. The tiled bench are white, orange and blue. The box and tiled bench at the end of the garden are white and blue. The wellhead is white-washed brick.

PLANTING PLAN



PLANTING LIST

KEY	LATIN NAME	NAME
- TREES -		
1	PLATANUS ORIENTALIS (PLANE)	
2	CITRUS AURANTIUM (ORANGE)	
4	ROBINIA P/EUDOCACACIA (BLACK LOCUST)	
5	MAGNOLIA GRANDIFLORA	
6	LAURUS NOBILIS (SWEET BAY)	
- PALMS -		
2	ROystonea REGIA (ROYAL PALM)	
- EVERGREENS -		
7	CUPRESSUS MACROCARPA F/TIGIATA (MONTRREY)	
8	CUPRESSUS MACROCARPA	
9	MYRTUS COMMUNIS (MYRTLE)	
10	PITTOSPORUM TOBIRA	
11	NERIUM OLEANDER. FLS. WHITE	
12	N. OLEANDER. FLS. PINK	
13	BUXUS / EMPERVIRENS / PYRAM.	
14	HYDRANGEA MACROPHYLLA HORTENSIA. F. BLUE	
15	DAPHNE LAUREOLA (ESPURCE) - FLOWER BBS -	
16	AUBERTIA DELTOIDEA (FLS. LILAC) AND IBERIS SEMP. (FLS. WHITE)	
17	AUBRETIA BOUG. (FLS. BLUE) - FLOWER POT -	
19	PELARG. HORTORVM (FLS. RED)	
20	CALENDULA OFFIC. (FLS. ORANGE)	
21	PELARGONIUM HORT (FLS. WHITE) - VINES -	
22	HELIOTROPUM PERUVIANUM JASMINUM OFFIC. (FLS. WHITE)	
23	J. NUDIFLORUM (FLS. YELLOW)	

Letters from Readers

DDT POSSIBLE CONTROL OF EUONYMUS SCALE.

In the issue of the American Nurseryman for December 15, 1945, there appeared an article, "DDT Used to Control Boxwood Leaf Miner." I used the formula during the emergency period of 1946 with amazing results. Although the single application, which was made before the midges emerged, was followed by showers and damp weather, the control was highly satisfactory.

Now there is the possibility that DDT may be effective against that pest of euonymus—euonymus scale. I offer the following quotation from a letter from Dr. C. C. Hamilton, entomologist, New Jersey agricultural experiment station.

"While I have not done any actual experimental work in control of the euonymus scale with DDT, my experience in controlling other scale insects, some of which are similar in their life histories and habits, using DDT, would indicate to me the probability that DDT should offer a highly satisfactory method of controlling this pest. My first suggestion would be to clean out all badly injured and heavily infested portions of euonymus plants, particularly if they are of the ground variety. Then starting about the middle of May, depending upon locality and the time when the scale insects will be hatching, apply a spray of DDT so that

there is the equivalent of one pound of actual DDT per hundred gallons of spray. This would amount to two pounds of a fifty per cent wettable powder or two quarts of an emulsion containing twenty-five per cent DDT. The spray should be thoroughly applied, and unless heavy rains occur to wash off the DDT, I believe it would be effective against most of the young hatching from eggs of the first brood. If there is some question as to whether two applications should be made, I should suggest making the first one a little earlier and the second one about three weeks after the first. In other words, it is desirable to have the DDT on in plenty of time so as to kill the first young."

Euonymus, especially the variety *vegetus*, has been a most desirable evergreen vine, except for the inevitable scale. If results prove as satisfactory as seems probable, euonymus will be restored to favor with growers and landscape men.

George Jennings.

TIME TO LAY UP RESERVES.

Some sage of the past has said that, "Man learns from history that man learns nothing from history." For the mass of mankind that may be true, but for some individuals and some groups it is frequently untrue.

It is to be hoped that the nurserymen of this country may be one of

the groups for whom this maxim is untrue. It is to be hoped that at some future date when an equilibrium is again achieved between supply and demand in the nursery stock market, most nursery concerns will have built up emergency reserves so that they will be able to carry through a year or two of rough going without going to their bankers to borrow money to lose. Most bankers worthy of the name will not loan money to lose, not knowingly. Besides, the only kind of money that it is safe for any business to lose is its own money—money that it has acquired and laid aside for that purpose while the going was good enough so that proper reserves could be built.

Are we not now right in the midst of that period when nurseries should be laying up the reserves to take them through the less lush period that is bound to come sometime? We think so.

Every business must figure out for itself just what its reserve requirements properly should be. One nurseryman recently stated that he thought it should be one-third of his average annual volume for the last 5-year period. Maybe that is the right answer for him. We wouldn't know, because we don't know enough about the details of his business. But we are convinced that this is the proper time to be figuring and planning so that reserves will be adequately available when the time of need arises.

A Nurseryman.

INSTALL HIGH-SPEED SAW.

In an effort to hold packing costs to customers within reasonable figures, the Jewell Nurseries, Inc., Lake City, Minn., recently purchased an electrically operated saw.

This machine was purchased from the Equipment Engineering Co., St. Charles, Ill., and is known as a Wilson 5-horsepower high-speed radial cutting machine. It was installed in the boxing department of the main nursery about three months ago and is being used to cut materials for crates and boxes and also for working wood for general maintenance and repair purposes.

John Cronin, the operator, after three months of operation of this machine states that he has cut more material than he could cut in a year with the discarded equipment. He says that the work is also much more accurate. He expressed happiness over the ease of handling and versatility of the high-speed saw.

LORRAINE NURSERIES are being operated at Watertown, Conn., by Mr. and Mrs. Anthony Brody.

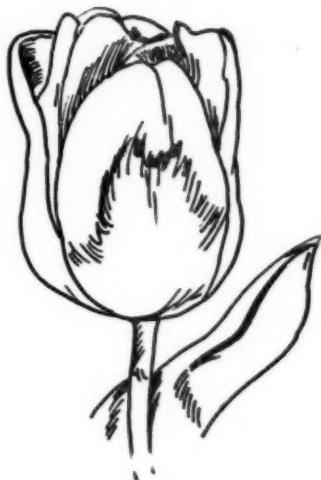


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"The best ever received."—Wyoming.

"I want to tell you that all the bulbs you shipped me were the finest I have ever received from anywhere and I could have sold a lot more."—Nebraska.

"I am well satisfied with the size and quality."—Washington.

"The bulbs are fine and of good size and I am well pleased with them."—Ohio.

"The bulbs are the nicest we ever had."—Kansas.

"I received my tulips and hyacinths late yesterday afternoon and they were just as fine as I've ever seen."—Oklahoma.

"This is nice stock and we would like for you to keep us in mind for bulbs next year"—Missouri.

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Plant Notes Here and There

By C. W. Wood

A reader who has a contract to plant a blue garden this spring asks for a selection from among the more common flowers. As the reply might interest others, it is included here, with a few explanatory notes.

Excepting some of the blue-flowered bulbs which cannot well be planted in spring, the season could be started with forget-me-nots and the Virginia cowslip, *Mertensia virginica*. Both could be used in quantity if provisions were made to have their areas occupied by other things after they were through blooming. It may be that I never handled the mertensia correctly, for it never gave me permanently satisfactory results when it was planted in the wild garden or any place where it had to take care of itself. On the other hand, in cultivated areas it is not only permanent, but it is a perennial joy. In sections more temperate than northern Michigan, one could use *Lithospermum prostratum* in one of its forms as a ground cover.

Several tall-growing plants, including *Anchusa italicica*, garden heliotrope or valerian and delphinium, could form the background. In front of these, *Cynoglossum nervosum* and *Salvia farinacea* would form a connecting link. These would cover most of the season with shades of blue, and the lovely *Salvia azurea grandiflora* could be used to glorify late summer and autumn.

Campanula Rotundifolia.

I hesitate before entering into a detailed discussion of a plant as well known as *Campanula rotundifolia*, until I remember the number of approving letters that usually come in after such appearances in print. And in the present case I also remember that, despite a supposedly wide popularity in gardens, not half the story of this plant is known, nor are all its garden possibilities appreciated.

The cosmopolitan harebell, *Campanula rotundifolia*, which circles the globe in the northern hemisphere, holds much interest for plant students as well as much value to gardeners. As it spreads across North America, Europe and Asia, it assumes many forms, no doubt because of the different environments it encounters. The variations are so great, in fact, that a survey of the species throughout its range becomes an absorbing task. That the limits of the species, and especially of its varieties, are not

clearly defined merely adds to the pleasure the curious person can derive from such an inquiry, provided he avoids the arguments which certain botanists have had and are having over what is and what is not *C. rotundifolia*. It would be folly, of course, for a mere gardener like me to enter into a field so confused; yet there are a few observations on the garden behavior and uses of some of the forms of *C. rotundifolia* which may be of interest.

First is the question of soil. In nature, plants are found in all sorts of soils, from the lean sands of the lake shores to the humus-filled soils of woodlands. And if one observes closely, he will find, in addition to the more apparent differences in heights of plants, branching habits and sizes and colors of flowers, a wide variation in texture of the leaves, hairiness, or rather pubescence, of the stems and divergences of the calyx lobes. The last two characteristics are the principal ones used by botanists in splitting up the species into the numerous forms which are seen in plant lists.

Other characteristics, however, such as height of plant and color and size of flower, are factors which

govern a plant's usefulness as a garden subject. At least the first of these can be made to conform, at least partially, to the gardener's wishes by proper manipulation of the plant's growing medium. If dwarf growth is desired, *Campanula rotundifolia* should be given a lean sand. I have grown it in pure lake sand, and it remained in perfect health over a long period, never exceeding four inches in height. If luxuriant growth is desired, the plants may be given shade and a rich soil, particularly one full of leaf mold. Robust forms should then attain a stature of two feet or more. Gradations between these two extremes may be obtained by manipulation of soil and exposure. There are, however, forms of nature which keep fairly constant to their natural stature for two or three generations after being brought into the garden, no matter what their diet may be. That last remark brings up the factor of retrogression, which every observant gardener must have noticed.

A noteworthy example of retrogression is the form known as *C. scheuchzeri*. This variation of *C. rotundifolia* was set aside as a true spe-

[Continued on page 42.]

EVERGREENS

	Per 100	Per 1000
<i>Juniperus Andorra</i>	\$20.00	\$175.50
6 to 8 ins. (2½-in. rose pots).....	22.50
8 to 10 ins., xx.....	27.50	250.00
<i>Juniperus Japonica Procumbens</i>	40.00
12 to 15 ins., xx.....	22.50	200.00
<i>Black Hills Spruce</i>	27.50	250.00
6 to 9 ins., xx.....	22.50	200.00
9 to 12 ins., xx.....	27.50	250.00
<i>Colorado Blue Spruce</i> (seedlings)	22.50	200.00
6 to 9 ins., xx.....	30.00	275.00
9 to 12 ins., xx.....	22.50	200.00
<i>Taxus Cupidata</i>	25.00	225.00
2½-in. rose pots, 1-yr.....	35.00	325.00
6 to 8 ins. (cut back from beds).....	25.00	225.00
<i>Taxus Cupidata Brownii</i>	25.00	225.00
2½-in. rose pots, 1-yr.....	25.00	225.00
<i>Taxus Cupidata Intermedia</i>	25.00	225.00
2½-in. rose pots, 1-yr.....	25.00	225.00
<i>Taxus Media</i>	25.00	225.00
2½-in. rose pots, 1-yr.....	25.00	225.00
<i>Taxus Media Andersoni</i>	25.00	225.00
2½-in. rose pots, 1-yr.....	25.00	225.00
<i>Taxus Media Hicksii</i>	25.00	225.00
2½-in. rose pots, 1-yr.....	25.00	225.00

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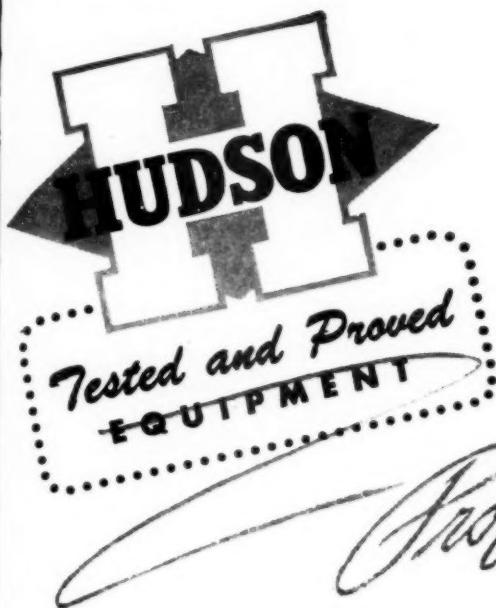
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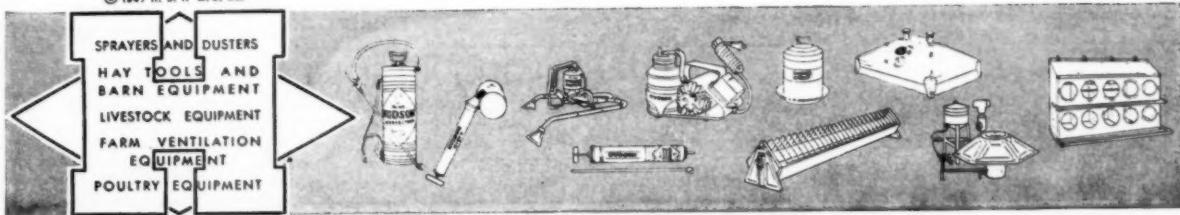
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**M. R. CASHMAN BUYS
SHERMAN NURSERY CO.**

M. R. Cashman, Cashman Nurseries, Inc., Owatonna, Minn., has made an agreement to buy all shares of stock in the Sherman Nursery Co., Charles City, Ia., and will take over the business July 1. The name of the latter firm will be retained, as will all personnel now employed by it.

The Sherman Nursery Co. was founded by the late E. M. Sherman in 1884 and incorporated under the laws of Iowa in 1888. In 1932 the management of the nursery was turned over to Ellis & Ellis, Inc., and at present it is owned by this corporation. The late John F. Christiansen served as president until his death last February. H. M. Ellis is the present president, and other officers are: Vice-presidents, C. C. Smith and H. J. Deems; secretary, M. W. Swartz, and treasurer, E. L. Walleser.

Starting with a small tract of land, the Sherman Nursery Co. acquired land until the acreage grew to 600. A portion of the land was recently sold to the Dr. Salisbury Laboratories, and there are now approximately 500 acres in the nursery. A stone office building was constructed in 1908 from native limestone quarried from the nursery grounds. A large underground storage cellar was constructed in 1910. Greenhouses consist of approximately 75,000 feet of glass producing cut flowers for wholesale. Two sidings of the Charles City Western railroad aid the nursery in the conduct of its retail, wholesale and mail-order business.

M. R. Cashman, who is 71 years old, served as president of the American Association of Nurserymen in 1924 and was on its board of directors for eleven years. Mr. Cashman was a member of the Minnesota senate for eight years and is a member of the Owatonna chamber of commerce and the Rotary Club there. Dividing the Cashman interests at Owatonna some years ago, M. R. Cashman continued the greenhouses and florists' business, while his brother, the late Thomas E. Cashman, continued the nurseries. Subsequent to the latter's death, M. R. Cashman took over the management of the Cashman Nurseries, Inc., in behalf of his sister-in-law.

One of Mr. Cashman's sons, Richard, who is a greenhouse operator at Owatonna, will be an adviser in operations of the Sherman Nursery Co. Two other sons, Charles and Robert, who will be graduated this year from the University of Minnesota with degrees in law and accounting, respectively, may also become associated

CLEARANCE SALE OF FRUIT TREES

From Cold Storage in Dormant Condition

APPLE	Per 10	Per 100	Per 1000
2-yr., 11/16-in. cal.	\$5.00	\$45.00	\$400.00
2-yr., 9/16-in. cal.	4.00	35.00	300.00
2-yr., 7/16-in. cal.	3.00	25.00	200.00
1-yr., 4 to 6 ft.	3.50	30.00	250.00
1-yr., 3 to 4 ft.	3.00	25.00	200.00

Varieties	Red McIntosh
Delicious	Smokehouse
Double Red Delicious	Stayman
Double Red Jonathan	Sweet Paradise
Double Red Spy	Turley
Double Red Stayman	Winesap
Early Harvest	Winter Banana
Early Red Bird	Yellow Delicious
Grimes Golden	Yellow Transparent
Hyslop Crab	

PEACH	Per 10	Per 100
4 to 6 ft.	\$5.00	\$45.00
3 to 4 ft.	4.00	35.00
2 to 3 ft.	2.50	20.00
18 to 24 ins.	2.00	15.00

Varieties	Mayflower
Afterglow	Red Bird
Amador	Redhaven
Belle of Ga.	Slappy
Brackett	
Carmen	
Champion	
Crawford's Early	
Double Red Elberta	
Fireglow	
Golden Jubilee	
Heath Cling	
Hiley	
Indian	
J. H. Hale	
Krummel	

CHERRY	Per 10	Per 100
11/16-in.	\$12.00	\$100.00
9/16-in.	9.50	85.00
7/16-in.	8.50	75.00

Varieties	Napoleon
Bing	Schmidt
Black Tartarian	Windsor
Early Purple	Lambert

PEAR
Sizes and prices same as for Cherry in the following varieties:
Bartlett, Clapp's, Garber, Kieffer, Seckel.

PLUM
Jumbo Size 6 to 7 ft., 1 to 1 1/2-in. cal., \$16.00 per 10, \$145.00 per 100; 4 to 6 ft., \$9.00 per 10, \$80.00 per 100; 3 to 4 ft., \$7.50 per 10, \$70.00 per 100;
2 to 3 ft., \$5.00 per 10, \$45.00 per 100.

Abundance, Burbank, European Prune,
Mammoth Golden, Red June, Damson, Wickson.

Write for prices on Blueberries, Grapes, Raspberries and Boysenberries.

WAYNESBORO NURSERIES

Waynesboro, Virginia

THUJA GLOBOSA

1000 18 to 24 inches, \$1.50 each

These are fine evergreens,
well developed and of good
color.

THE WESTMINSTER NURSERIES

Westminster, Md.

CANADIAN HEMLOCKS

No loss when you get them in the bands they
grew in; just set them out as they are.

2 to 18 ins., in 2 to 3-inch bands.

New booking 1947 orders.

CALVIN S. GROBAKER
115 Beechwood Ave., Catonsville 28, Md.

TAXUS CUSPIDATA

(spreading)

2-yr. bed-grown, 9 to 12 ins.
\$25.00 per 100; \$225.00 per 1000.

LILACS, French Hyb.

1-yr. best varieties.

\$25.00 per 100; \$225.00 per 1000.

DEERFIELD NURSERIES

Deerfield Street P.O., N. J.

PRIVET and BERBERIS

Splendid Stock

Write for Special Quotations

LESTER C. LOVETT
MILFORD DELAWARE

with the business. A fourth son, Michael, is a student at the Merchant Marine Cadet Academy at Kings Point, N. Y.

PLAINS ASSOCIATION MEETS.

Emphasizing the need for nurserymen to be persistent in their soil conservation practices, Jesse Breedlove, Breedlove Nurseries, Tyler, Tex., president of the Texas Association of Nurserymen, was principal speaker at a dinner meeting of the Plains Nurserymen's Association, at Lubbock, Tex., April 15. Donald D. King, of Lubbock, president of the Plains association, presided at the meeting.

The principal item at the business session, which followed a program of entertainment, was the adoption of a constitution and a code of ethics. The constitution provides for an annual meeting in May and a meeting of the board of directors one week before the annual convention of the Texas Association of Nurserymen. Paul M. Bruce, of Alanreed, Tex., and K. M. Dunagan, of Carlsbad, N. M., were elected to fill vacancies on the board of directors.

VIRGINIA MEETING.

Principal feature of the annual meeting of the Virginia Nurserymen's Association, August 12 to 14, at the George Mason hotel, Alexandria, will be a study course in landscape designing under J. P. Porter, of Cornell University, Ithaca, N. Y. Tours at Alexandria and Washington will be arranged to give Professor Porter the opportunity to point out the good and bad points of certain landscape developments.

KENNETH ZAKARIASEN has joined his brother, Russell, in the operation of the Homedale Nursery, east of Hopkins, Minn. Both brothers served as officers in the navy during the war. Russell Zakariassen established the nursery after his release from service last year.

HAIL broke about 15,000 feet of glass out of approximately 70,000 square feet in the greenhouses of the Sherman Nursery Co., Charles City, Ia., April 22. The hail reached the size of a golf ball, and the ground was well covered the greater part of the morning. The glass has been replaced. Some loss was suffered in the cut of rose blooms, but most of the plants in the greenhouses were saved. The late season and wet weather have delayed digging nursery stock from the fields. Mexican labor is being used to supplement the local supply.

QUALITY LINING-OUT STOCK

For Immediate and Later Shipment

There is still ample time to plant this stock, as all items are in pots or were dug last Fall and trenched in to enable late shipping and planting this Spring. Items in capital letters are our own introductions. Ask for descriptive list.

	Per 100	Per 1000
<i>Acer pal. purpureum</i> , sdlg., 2½-in. pot, 10 to 12 ins.	\$40.00	
<i>Aucuba japonica</i> , 4-in. pot, 10 to 12 ins.	40.00	
AZALEA HINO-CRIMSON , 2¼-in. pot.	25.00	
60 <i>Cornus fl. pendula</i> , 1-yr., 4-in. pot, 10 to 12 ins.	80.00	
80 <i>Cornus xanthocarpa</i> , 1-yr., 4-in. pot, 10 to 12 ins.	80.00	
<i>Crataegus pauli</i> , grafts, 12 to 15 ins.	50.00	
80 <i>Crataegus pauli</i> , 1-yr., 4-in. pot, 12 to 18 ins.	80.00	
70 <i>Fagus rotundifolia</i> , 1-yr., 4-in. pot, 12 to 18 ins.	90.00	
<i>Hamamelis mollis</i> , grafts, 8 to 10 ins.	65.00	
<i>Ilex crenata convexa</i> , 2½-in. pot, 6 to 8 ins.	15.00	
<i>Laurocerasus schipkaensis</i> , 4-in. pot, 10 to 12 ins.	40.00	
<i>Malus</i> in variety (Fl. Crab), 1-yr. X, 1 to 2 ft.	30.00	
1-yr. X, 2 to 3 ft.	35.00	
<i>Retinospora plumosa</i> , 1-yr. X, 6 to 8 ins.	15.00	
<i>Retinospora plumosa aurea</i> , 1-yr. X, 6 to 8 ins.	15.00	
<i>Rhododendron</i> hybrids, grafts	100.00	
<i>Taxus cusp. intermedia</i> , 2-yr. X, 6 to 8 ins.	30.00	
<i>Taxus cusp. spreading</i> , 1-yr. X, 6 to 8 ins.	17.50	\$150.00
<i>Taxus cusp. Vermeulen</i> , 2-yr. XX, 6 to 8 ins. (light)	25.00	
2-yr. XX, 6 to 8 ins.	30.00	275.00
2-yr. XX, 8 to 10 ins.	35.00	325.00
2-yr. XX, 10 to 12 ins.	40.00	
3-yr. XX, 6 to 8 ins.	35.00	
<i>Taxus media hatfieldi</i> , 1-yr. X, 6 to 8 ins.	17.50	150.00
<i>Taxus media hicksi</i> , 1-yr. X, 6 to 8 ins.	17.50	150.00
TAXUS MEDIA PYRAMIDALIS , 2¼-in. pot.	35.00	
TAXUS MEDIA PYRAMIDALIS ROBUSTA , 2¼-in. pot.	35.00	
TAXUS MEDIA STRICTA , 2¼-in. pot.	35.00	
TAXUS MEDIA STRICTA VERIDIS , 2¼-in. pot.	35.00	
<i>Thuja occ. nigra</i> , 1-yr. X, 6 to 8 ins.	15.00	140.00
<i>TSUGA CAN. COMPACTA</i> , No. 2, grafts, 6 to 8 ins.	65.00	
<i>TSUGA CAN. PYRAMIDALIS</i> , grafts, 8 to 10 ins.	125.00	
<i>Viburnum burkwoodi</i> , 2¼-in. pot, 4 to 6 ins.	25.00	
50 <i>Viburnum burkwoodi</i> , 4-in. pot, 12 to 18 ins.	100.00	
<i>Viburnum rhytidophyllum</i> , 3-in. pot, 8 to 10 ins.	40.00	
WISTARIA MULTIJUGA (own sel.), 2¼-in. pot.	25.00	
<i>Wistaria shironoidea</i> (white), 2¼-in. pot.	25.00	

ROOTED CUTTINGS

<i>Ilex crenata convexa</i> , 4 to 6 ins.	9.00	75.00
6 to 8 ins.	10.00	80.00
<i>Retinospora pisifera aurea</i> , 6 to 8 ins.	8.00	
<i>Retinospora plumosa</i> , 6 to 8 ins.	8.00	
<i>Retinospora plumosa aurea</i> , 6 to 8 ins.	8.00	
<i>Taxus cusp. brevifolia</i> , 4 to 6 ins.	8.00	75.00
6 to 8 ins.	8.50	80.00
<i>Taxus cusp. spreading</i> , 6 to 8 ins.	8.50	80.00
<i>Taxus media hatfieldi</i> , 4 to 6 ins.	8.50	80.00
<i>Taxus media kelseyi</i> , 4 to 6 ins.	8.50	80.00
6 to 8 ins.	9.00	85.00
TAXUS MEDIA KELSEYI UPRIGHT , 4 to 6 ins.	13.00	
6 to 8 ins.	15.00	
<i>Thuja occ. globosa novum</i> , 6 to 8 ins.	8.00	
<i>Thuja occ. nigra</i> , 6 to 8 ins.	8.00	

Cash with order please.

JOHN VERMEULEN & SON, Inc.

Westbury, L. I., N. Y.

Telephone 328

AMERICAN ASSOCIATION OF NURSERYMEN

RICHARD P. WHITE,
EXECUTIVE SECRETARY



636 SOUTHERN BLDG.,
WASHINGTON, D. C.

NAME A. A. N. MARKET, PUBLICITY COMMITTEES.

Regional subcommittee assignments have been completed by the market development and publicity committee of the American Association of Nurserymen, to insure that the views and wishes of all regions are given proper consideration in the adoption of the trade promotion program and in the timing of publicity releases, etc., so that they will be effective in all regions. Approximate dates of regional planting seasons are now being determined by the subcommittees. At the Boston convention, a meeting of the central committee and all subcommittee members will be arranged with the public relations counsel, Verne Burnett.

Members of the central market development and publicity committee are C. S. Burr, C. R. Burr & Co., Inc., Manchester, Conn., chairman; D. D. Wyman, Bay State Nurseries, Inc., North Abington, Mass.; Wayne Ferris, Earl Ferris Nursery, Hampton, Ia.; Les Engleson, C. W. Stuart & Co., Inc., Newark, N. Y., and Ray Hartman, Leonard Coates Nurseries, Inc., San Jose, Cal.

Regional subcommittees are as follows:

Region 1—Donald D. Wyman, Bay State Nurseries, Inc., North Abington, Mass., chairman; Luke C. May, Lexington Nurseries, Inc., Lexington, Mass.; Homer K. Dodge, Landscape Service Co., Framingham, Mass.; Les Engleson, C. W. Stuart & Co., Inc., Newark, N. Y., and Harold Seyler, B. F. Barr Nurseries, Lancaster, Pa.

Region 2—Louis E. Hillenmeyer, Hillenmeyer Nurseries, Lexington, Ky., chairman; Don Hastings, Hastings Nurseries, Atlanta, Ga., and M. L. Harkey, Harkey Nurseries, Charlotte, N. C.

Region 3—Jess Foster, Brown Deer Nurseries, Milwaukee, Wis., chairman; Charles Greening, Greening Nurseries, Monroe, Mich., and Frank Turner, Berry Hill Nurseries, Springfield, O.

Region 4—Wayne Ferris, Earl Ferris Nursery, Hampton, Ia., chairman; M. R. Cashman, Cashman Nurseries, Inc., Owatonna, Minn., and Les Sjulin, Inter-State Nurseries, Hamburg, Ia.

Region 5—E. L. Baker, Baker Bros. Nursery, Fort Worth, Tex., chairman; Steve Verhagen, Verhagen Nursery Co., Scottsville, Tex., and Clark Kidd, Arp Nursery Co., Tyler, Tex.

Region 6—Ray Hartman, Leonard Coates Nurseries, Inc., San Jose, Cal., chairman; Paul Moulder, Moulder Bros., Glendale, Cal.; Walter Lamerts, Rancho

del Descanso, La Canada, Cal.; Thomas Sands, Del Rancho Fortuna, McFarland, Cal.; Avery H. Steinmetz, Portland Wholesale Nursery Co., Portland, Ore., and Robert Beam, May Nursery Co., Yakima, Wash.

COMMITTEES PLAN FOR A. A. N. CONVENTION.

Under the direction of Donald D. Wyman, executive chairman, members of the committees for the seventy-second annual convention of the American Association of Nurserymen, July 21 to 24, at Boston, Mass., are rapidly completing plans for the event. Richard M. Wyman, Wyman's Framingham Nurseries, Framingham, Mass., is handling convention funds as treasurer of the general committee.

C. Russell Jacobus, Cedar View

NORTHERN-GROWN EVERGREENS FOR LINING OUT

	Per	Per
Canada Hemlock	100	1000
4 to 8-in. seedlings	\$ 4.00	\$ 25.00
8 to 12-in. seedlings	5.00	40.00
12 to 18-in. seedlings	20.00	...
18 to 24-in. seedlings	30.00	...
4 to 8-in. transplants	20.00	180.00

Balsam Fir

4 to 8-in. seedlings	5.00	30.00
8 to 12-in. seedlings	8.00	60.00

American Arborvitae

4 to 8-in. seedlings	3.00	20.00
8 to 12-in. seedlings	5.00	40.00

Oldfield Common Juniper

4 to 8-in. seedlings	6.00	50.00
8 to 12-in. seedlings	10.00	90.00

Eastern Red Cedar

4 to 8-in. seedlings	5.00	40.00
8 to 12-in. seedlings	10.00	80.00

Send for complete list of first-quality collected Northern-grown Hardy Native Trees, Shrubs and Plants.

ISAAC LANGLEY WILLIAMS
P. O. Box 352
Exeter, N. H.

COLORADO BLUE SPRUCE
5-yr. T., 6 to 8 ins., \$75.00 per 1000;
3 to 5 ins. T., \$20.00 per 1000. 500 at
1000 rate. Beetle inspected.

W. W. DAMBACH
R. D. 1, New Brighton, Pa.
Phone: Ellwood City 4957R2

Trees, Evergreens, Shrubs Fruit Trees

Write For Our Wholesale Trade List

W. - T. Smith Corporation
Telephone 2689 **GENEVA, N. Y.**

Farm, Upper Montclair, N. J., chairman of region 1 of the A. A. N., is honorary chairman, and executive assistants are Charles S. Burr, C. R. Burr & Co., Inc., Manchester, Conn., and V. J. Vanicek, Rhode Island Nurseries, Newport, R. I.

The general committee is being assisted by the presidents of the New England, New Jersey, New York and Pennsylvania nurserymen's associations, respectively, Peter J. Cascio, West Hartford, Conn.; George C. White, Bobbink & Atkins, East Rutherford, N. J.; John W. Kelly, Kelly Bros. Nurseries, Dansville, N. Y., and Wilbur I. Nisley, Walter, Nisley & Walter, Harrisburg, Pa.

Members of the various operating committees are as follows:

Transportation—Luke C. May, Lexington Nurseries, Lexington, Mass., chairman; Isaac L. Williams, Clifford D. Corliss, Walter Stranger, Arthur Webster, George Fellows and Henry Verkade.

Publicity—Homer K. Dodge, Landscape Service Co., Framingham, Mass., chairman; Richard Holmes, Harold Seyler and William Clark.

Exhibition—Lloyd A. Hathaway, Little

EVERGREEN ROOTED CUTTINGS AND TRANSPLANTS

We are now booking orders for spring and summer delivery. Get our full list. Tr.—Transplants R.C.—Rooted Cuttings
Abelia Grandiflora, Per 100 Per 1000
10 to 12 ins. X \$15.00
Abelia Grandiflora, 13 to 15 ins. X 20.00
Arborvitae Globosa, Globe Arb. R.C. 8.00 \$ 75.00
Arborvitae Pyramidalis, Pyramidal Arb. R.C. 8.00 75.00
Arborvitae, Tom Thumb, R.C. 7.00 65.00
Arborvitae Nigra, R.C. 8.00
Juniper Communis Depressa, Plumosa Andorra Juniper, R.C. 9.00
Juniperus Hetzii, Blue Feltz. Juniper, R.C. 14.00
Retinospora Filiformis, Thread Retinospora, R.C. 7.00
Retinospora Plaifera Aurea, R.C. 7.00
Retinospora Plumosa, R.C. 7.00 65.00
Retinospora, Gold Dust, R.C. 8.00
Retinospora Squarrosa, Veitchi, R.C. 7.00
Retinospora Squarrosa, Veitchi, Tr. 18.00
Retinospora Plumosa, 6 to 8 ins. Tr. 18.00
Taxus Baccata Repandens, R.C. 9.00
Taxus Cupidata, R.C. 9.00 85.00
Taxus Cupidata Capitata, R.C. 14.00 135.00
Taxus Cupidata Nana, R.C. 12.00

ESHAM'S NURSERIES
Frankford, Del.

HEMLOCKS KALMIA, RHODODENDRON, AZALEA

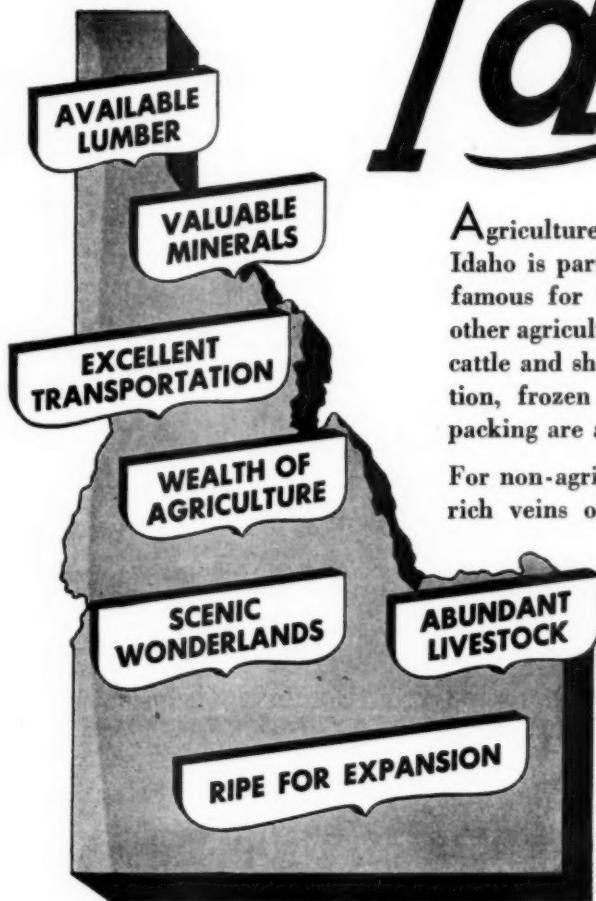
CURTIS NURSERIES
CALlicoon NEW YORK

Host for Pennsylvania
Nurserymen's Association
Summer Meeting August 6.

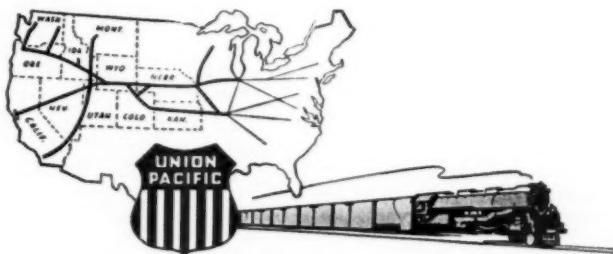
FAIRVIEW EVERGREEN NURSERIES
Fairview, Pa.



TREASURE MAP
OF INDUSTRY



*One of a series of advertisements based
on industrial opportunities in the states
served by the Union Pacific Railroad.



UNION PACIFIC RAILROAD

THE STRATEGIC MIDDLE ROUTE

Idaho*

Agriculture being the life-blood of many industries, Idaho is particularly fortunate in that respect. World-famous for the Idaho potato, it has developed many other agricultural activities. Grains, vegetables, fruit . . . cattle and sheep are produced in abundance. Dehydration, frozen foods processing, dairying, canning and packing are among the state's flourishing industries.

For non-agricultural industries, Idaho is endowed with rich veins of minerals. Numerous manufacturers of stone, clay and glass products have established plants in Idaho. Lumber for building and wood products is available. Unsurpassed rail transportation is provided by Union Pacific.

As a vacation region, Idaho has a wonder-world of its own in Sun Valley . . . year-round sports center . . . the world famous primitive area . . . and in the scenic surroundings of Payette Lake.

Idaho is a young thriving state, ripe for further industrial development. It offers good living and working conditions, good schools, splendid cultural advantages . . . and its energetic citizens assure newcomers of a true western welcome.

*Address Industrial Department, Union Pacific Railroad, Omaha 2, Nebraska, for information regarding industrial sites.

field-Wyman Nurseries, Abington, Mass., chairman; Charles Hess, Fred Herbst, Jack Shore and Marinus Van der Pol.

Entertainment—Richard M. Wyman, Jr., Wyman's Framingham Nurseries, Framingham, Mass., chairman; Edmund Mezitt, and Floyd Oatman.

Registration—L. C. Vanderbrook, C. L. Vanderbrook & Son, Manchester, Conn., chairman; Cornelius Van Tol, and James A. Morrison, manager of the Boston convention bureau.

Seth L. Kelsey, Kelsey-Highlands Nursery, East Boxford, Mass., is chairman of the committee on decorations. Mrs. Helen Cascio, the Peter Cascio Nursery, West Hartford, Conn., will be assisted by the wives of committee members in the preparation of the ladies' program.

As chairman of the hosts for the Clam Diggers' Club, Joseph Chasnica, Chasnica Landscape Service, Westfield, Mass., will be assisted by Jack Brownell, Jac Bulk, Eugene Muller, Louis Wissenbach, Fred Noble, Lou C. Schubert, Joel Barnes, Peter Van Melle, Valleau C. Curtis, Howard Maloney and Harold Thurlow.

COVER ILLUSTRATION.

Gaylussacia Brachycera.

Gaylussacia brachycera, the box huckleberry, is a low, creeping broad-leaved evergreen shrub, with branches ascending to a height of only eight to ten inches or occasionally slightly more. It is native from Pennsylvania south to Virginia, Kentucky and Tennessee. Single plants have been reported as covering vast areas in Pennsylvania, spreading by creeping and underground stems.

The small evergreen leaves, one-half to one inch in length, are borne alternately on the stems. The margins are entire and usually slightly rolled under. The flowers and fruits are not outstanding from an ornamental standpoint.

The box huckleberry is hardy and prefers cool situations and moist peaty or sandy acid soil. It is tolerant of nearly full shade, but will do well in sunny exposures in the cooler regions.

It is not a plant used extensively in landscape plantings. Its use is limited mostly to rockeries, to wild gardens and for naturalizing in wooded areas.

L. C. C.

JEWELL NURSERIES, INC., Lake City, Minn., suffered a severe loss from fire, April 25. Its largest warehouse, which contained eight carloads of lumber in addition to other merchandise, was a total loss.



Late orders given prompt attention. See our latest Wholesale List for special variety assortment for quick shipment.

Plan to stop at Princeton at the time of the National Convention.

PRINCETON NURSERIES

Phone: Princeton 1776

Princeton, N. J.

ROSES

No. 1 Field-grown at \$6.50 per 10, \$60.00 per 100, in the following varieties:

HYBRID TEAS

Betty Uprichard
Briarcliff
Caledonia
Condesa de Santiago
Dame Edith Helen
Edith Nellie Perkins
Editor McFarland
E. G. Hill

Golden Dawn
K. A. Viktoria
Lady Hillingdon
Luxembourg
Margaret McGredy
McGredy's Scarlet
Mrs. Charles Bell
Mme. Jules Bouche
F. K. Druschki, H. P.

Mrs. P. S. Du Pont
Pres. Hoover
Radiance, Pink
Radiance, Red
Sunburst
Talisman
White Radiance

CLIMBERS

American Pillar
Dr. W. Van Fleet
Talisman Climber

POLYANTHAS

Cecile Brunner
Chatillon
Golden Salmon
Ideal

WAYNESBORO NURSERIES WAYNESBORO, VIRGINIA

LINING-OUT STOCK OUR SPECIALTY....

Shade Tree Whips . . . a timely finished product saving 2 to 4 yrs.' growing effort . . . excellent variety.

A very complete line of ORNAMENTAL TREES, SHRUBS and EVERGREEN SHRUBS, including many scarce items.

THOMAS B. MEEHAN CO.
DRESHER, PA.

HESS' NURSERIES

Mountain View
New Jersey

Wholesale growers of
SMALL FRUIT PLANTS
Grapes, Currants and Raspberries—
our specialty.
Hydrangeas P. G.
FOSTER NURSERY CO., INC.
69 Orchard St. Fredonia, N. Y.

NORTHERN COLLECTED EVERGREENS
FERNS
PLANTS
SHRUBS
WILLIAM CROSBY HORSFORD
Charlotte, Vermont

STRAWBERRY AND OTHER SMALL FRUIT PLANTS

STRAWBERRY PLANTS

Per 25 Per 100 Per 250 Per 1000

Big Joe, Blakemore, Dunlap, Massey, Maytime, Missionary, Robinson, Suwannee, Temple	\$0.35	\$1.15	\$2.00	\$7.00
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Catskill, Chesapeake, Dorsett, Fairfax, Fairpeake, Gandy, Klondike, Midland, Premier, Redstar, Starbright40	1.25	2.25	8.00
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Mastedon, Gemzate, Evb.....	.65	2.00	4.25	15.00
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No extra charge is made for the package or packing on Strawberry plant orders. Prices quoted are for delivery as wanted during the Spring 1947 shipping season, ending about June 1, and apply as follows:

25 to 75 plants of one variety at the 25 rate.

100 to 225 plants of one variety at the 100 rate.

250 to 475 plants of one variety at the 250 rate.

500 plants or more of one variety at the 1000 rate.

GRAPEVINES

Our Grapes have heavy fibrous root systems, with many lengthy canes at the top. Write for prices on large numbers. Concord (blue), Fredonia (black). Each Per 10 Per 100

Niagara (white):

2-year, No. I grade.....	\$0.25	\$1.75	\$14.00
--------------------------	--------	--------	---------

1-year, No. I grade.....

1-year, No. I grade.....	.20	1.50	10.00
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Catawba (mahogany), Moore's Diamond (white), Moore's Early (black), Portland (white), Warden (black):			
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2-year, No. I grade.....

2-year, No. I grade.....	.30	2.25	17.00
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1-year, No. I grade.....

1-year, No. I grade.....	.25	1.75	12.00
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Agawam (red), Brighton (red), Caco (red), Delaware (red):			
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2-year, No. I grade.....

2-year, No. I grade.....	.35	2.50	20.00
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1-year, No. I grade.....

1-year, No. I grade.....	.30	2.25	15.00
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ASPARAGUS ROOTS

Per 25 Per 100 Per 250 Per 1000

Varieties: Paradise and Mary Washington			
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3-year, No. I grade.....

3-year, No. I grade.....	\$1.25	\$4.00	\$8.75	\$30.00
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2-year, No. I grade.....

2-year, No. I grade.....	.75	2.50	5.25	18.00
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1-year, No. I grade.....

1-year, No. I grade.....	.60	2.00	4.00	11.00
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BUNTINGS' NURSERIES, INC.			
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DUMMETT GOLDEN WEDDING.

Arthur and Anna Dummett, Bernardsville, N. J., celebrated their golden wedding anniversary, Sunday, April 27, at the home of one of their daughters, Mrs. Marie D. Schattman, Woodmere, L. I., N. Y., with a family gathering and supper.

They have six children, four daughters and two sons, all of whom attended with their families, from Milwaukee, Wis.; Delray Beach, Fla., and Bath, Staatsburg and Pelham, N. Y. They have ten grandchildren, the oldest of whom flew from Hanover, N. H., where he is attending Dartmouth College. Mrs. Dummett's sisters and brothers and Arthur Dummett's sister and cousins made almost a 100 per cent attendance of their relatives, about fifty in all.

WINN NURSERY CO., Norfolk, Va., has had a new greenhouse constructed.

STRAWBERRY

AND OTHER SMALL FRUIT PLANTS

RASPBERRIES

	Per 10	Per 25	Per 100	Per 1000
Cumberland, No. 1 tips.....	\$1.00	\$2.00	\$6.00	\$50.00
Indian Summer, No. 1 suckers.....	1.00	2.00	7.00	60.00
Latham, No. 1 suckers.....	1.00	2.00	6.00	50.00
Newburgh, No. 1 suckers.....	1.00	2.00	7.00	60.00
St. Regis, No. 1 suckers.....	1.00	2.00	6.00	50.00
Sunrise, No. 1 suckers.....	1.00	2.00	7.00	60.00

BLACKBERRIES

	Per 10	Per 25	Per 100	Per 1000
Blowers, No. 1 R. C.....	\$1.00	\$2.00	\$7.00	\$60.00
Alfred, No. 1 R. C.....	1.00	2.00	7.00	60.00
Eldorado, No. 1 R. C.....	1.00	2.00	7.00	60.00

BOYSENBERRY PLANTS

	Per 10	Per 25	Per 100	Per 1000
1-year, No. 1 plants.....	\$1.00	\$2.00	\$6.00	\$50.00

THORNLESS BOYSENBERRY

	Per 10	Per 25	Per 100	Per 1000
1-year, No. 1 plants.....	\$1.00	\$2.00	\$6.00	\$50.00

RHUBARB ROOTS

Per 25 Per 100 Per 250 Per 1000

Varieties: Victoria and Myatts Linnaeus				
2-inch and up, forcing grade.....	\$3.50	\$10.00	\$24.00	\$90.00
1½ to 2-inch caliper.....	3.00	8.50	20.00	75.00
1 to 1½-inch caliper.....	2.50	6.00	14.00	50.00
½ to 1-inch caliper.....	2.00	5.00	11.00	40.00
½ to ¾-inch caliper.....	1.75	4.00	9.00	30.00

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	Each	Per 10	Per 25	Per 100
No. 1 divisions.....	\$0.60	\$5.00	\$11.00	\$40.00

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Trees to Replace Elms

While the Dutch elm disease is spreading less rapidly than was feared at the time its devastations appeared in the east, another deadly scourge, phloem necrosis, is affecting elms in a slowly widening area. Where these two diseases have wrought their destruction, replacement of American elm trees has already been necessary with other species.

Even in communities outside the areas which seem possibly to be affected by the spread of these diseases, discussion is prevalent as to the wisdom of relying upon the American elm as a street tree to so great an extent as is done in many communities. While first choice is still the American elm, some planting of other species is considered desirable, and the question is what species. The article by R. Morgan Smith in the May 1 issue offered suggestions gleaned from nurserymen's discussions.

The topic has been discussed also by arborists, city foresters, town planners, municipal officials and homeowners in general.

It was the subject of the March issue of the bulletin of popular information of the Morton Arboretum, Lisle, Ill. E. L. Kammerer, arboriculturist at the arboretum, suggested trees for street and parkway planting, admitting their limitations and faults. Some will be of no value in crowded city conditions where smoke, dust and soot are a menace to their existence. They will succeed, probably, in suburban areas where space is less limited and light and air are abundant.

Gleditsia triacanthos inermis, the thornless honey locust, topped the list of Mr. Kammerer's recommendations. "This fine tree," he said, "while subject to breakage in high wind and sometimes criticized for the unsightliness of its fallen seed pods, has many of those same qualities we admire in the American elm. Flat-topped and with flaring branches supporting a canopy of fine-textured foliage, it admits sufficient light to permit the maintenance of lawn and other plantings in its shade. Under ideal conditions its rate of growth will average about two feet a year, and it is tolerant of various soils and exposures."

The oaks rate highly, too, even though mere mention of them is sure to bring up the question of growth. This is not so slow as generally believed; experiments in feeding conducted at the Missouri Botanical

Garden have established the fact that under systematic fertilizing the oaks will keep apace with elms and sycamores. There is no reason why the northern red oak, *Quercus borealis maxima*, one of our finest natives, should not adorn our streets. Tall and straight, with massive, acute-angled branches, it has excellent clean foliage and beautiful fall color. True, it does not transplant so easily as some trees and is susceptible to borer damage, but if the moving is delayed until late April or early May and the trunks are carefully wrapped after planting, the sunscald which paves the way for the entrance of borers may be largely avoided.

"The pin oak's downward sweeping branches and formal pyramidal outline are better known, and for a good-looking, fast-growing, easily transplanted parkway tree it leaves little to be desired. Its susceptibility to chlorosis, a yellowing of the foliage resulting from an iron deficiency or rather nonavailability, is its only serious fault, but this condition can be controlled. Its deeply cut, glossy foliage exhibits brilliant autumn col-

oring and the leaves usually cling well into the winter.

"An equally colorful fall display is furnished by the scarlet oak, *Quercus coccinea*, an adaptable tree with a rounded dome and sweeping lower branches. It is especially useful on light soils. There is another oak, one with elongated, unlobed leaves rather suggestive of magnolia, which would seem to qualify as a worthy candidate for street planting. This is *Quercus imbricaria*, the shingle or northern laurel oak, a rather exotic-looking species of pyramidal or long oval outline. Where a round-headed tree is preferred, the English oak, *Quercus robur*, may be considered. While slower than the others, its eventual density and compactness compensate for the moderate rate of growth. A columnar variety of this species, *Quercus robur fastigiata*, is also in cultivation and has proved to be one of the best upright trees in our collection. For narrow streets it cannot be overlooked.

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APOLLO, bronze and yellow, Korean.
ASTRIEL, tall, good.
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	Each	Each	
2000 Wilder, 3-yr. heavy	\$0.20	\$0.19	
2000 Wilder, 2-1	.15	.14	

GRAPES

	10,000	10,000	
Fredonia, 1-1	\$0.11	\$0.10	
Niagara, 1-1	.11	.10	

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Per 100	Per 100	Per 100	Per 1000
1 1/2-in. and up	\$10.00	\$9.50	\$90.00
1 to 1 1/2-in.	6.00	5.50	50.00
3/4 to 1-in.	5.00	4.50	40.00
1/2 to 3/4-in.	4.00	3.50	30.00

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25	100	250
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would seem logical to find among the maples several forms of potential value as street trees, notwithstanding the seriousness of verticillium wilt and other diseases and insects to which they are subject. The Norway maple, Acer platanoides, tolerates smoke and gas better than any of the others and for this reason may be planted in the most congested areas. It is effective over a long period, having ornamental yellow flowers in the spring, good rich green summer foliage and golden yellow fall color, which not uncommonly lasts until early November. Its shortcomings are a tendency to develop a low head and a poorly shaped trunk, the density of its shade, its shallow rooting habit and its slow growth.

"There does not exist a more beautiful native shade tree than the familiar sugar or hard maple, Acer saccharum, and yet how seldom do we see new plantings of it today? Definitely a suburbanite, for it must have pure air to survive, it belongs on many a suburban street where now Carolina poplar or some other inferior subject holds sway. It needs space in which to develop its majestic oval head and should certainly not be used where a perfect lawn must be maintained beneath it. Sugar maples in the arboretum test plots have shown an average increase in height of better than two feet a year, which by any way of figuring can scarcely be called slow.

"In areas where moisture is ample and well distributed the silvery trunked red maple, Acer rubrum, belongs on the street tree list. Quite like the brittle-wooded silver maple in shape and habit of branching, its bright scarlet flowers and flaming

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Taxus Media Hicksi, 3-in. pots	25.00	225.00
Taxus Media Hicksi, 2 1/2-in. pots	20.00	180.00
Taxus Media Hicksi, 10 to 15 ins., beds	50.00	
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autumn foliage color set it apart. There are columnar or pyramidal varieties of all of the above maples available, but we have found them of much slower growth than the types themselves.

"From the standpoint of contour and branching habit, the lindens should qualify as street tree subjects. The preference of most of them for a deep, moist soil, however, and the fact that they are favorite hosts to numerous insects seriously limit their potential value. The shapely silver linden, *Tilia tomentosa*, with its decorative foliage, the formal-appearing hybrid Moltke linden, *Tilia moltkei* (*americana* x *petiolaris*), and the small-leaved European linden, *Tilia cordata*, are three of the most promising.

"The native sycamore, *Platanus occidentalis*, has in many localities proved a satisfactory street tree, and though remarkably amenable to trying city conditions, the blighting of its leaves in summer constitutes a serious drawback. The coarseness of its foliage is sometimes frowned upon, too, a fault which we feel is more than compensated for by its interesting winter aspect. For it is then that its mottled brown and olive gray bark and gleaming white upper limbs show to fullest advantage. The London plane, *Platanus acerifolia*, does even better in the city, but lacks hardiness and is host to a destructive canker disease.

"If it were not for witches'-broom, a disfiguring abnormality prevalent on hackberry, *Celtis occidentalis*, this near relative of the elm might well be the answer to the replacement problem. Well developed specimens show the same branching habit, fine twiggery and dense foliage mass of the American elm, in addition to that distinguishing earmark, extremely rough warty bark.

"The ginkgo or maidenhair tree, *Ginkgo biloba*, has established a creditable reputation as a street tree. Taking into consideration its various assets, for it is tolerant of soils and unfavorable growing conditions, easily transplanted and remarkably free from pests, it would seem to more than meet all requirements. Our experience has revealed two major objections, however, its slow growth rate and ungainly youthful appearance. Time will, of course, remedy both.

"Consideration might be given to a number of promising lesser known subjects. The cork trees, for example, *Phellodendron amurense*, *chinense* and *sachalinense*, are desirable round-headed ornamentals which are seldom found outside of

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botanical collections. And yet they tolerate city conditions surprisingly well, thrive in dry soil and escape the ravages of most pests. In all fairness we might add that they are not fast growers and tend to be low branched.

"If it transplanted more easily and its rate of growth could be artificially accelerated, the Kentucky coffee tree, *Gymnocladus dioicus*, would surely rate a place on the list. Mature trees have a flaring branch system not unlike that of the American elm, though there is a noticeable absence of any fine branches, and the compound leaves are tropical appearing rather than elm-like.

"On wide parkways where clearance beneath branches is of minor importance, the small rounded Amur maple, *Acer ginnala*, might be tried. Not only is its foliage a pleasing green, but it also bears conspicuous red fruit in summer and produces a flaming autumn leaf display.

"Several of the taller flowering crab apples are also appropriate in suburban localities. Their blossoming affords a charming picture in May, and in fall bright fruits carry on the show. Limiting our choice to a few varieties, we would especially recommend the dependable early-flowering Manchurian crab, *Malus baccata mandshurica*; the distinctive cutleaf crab, *Malus toringoides*; the free-flowering Japanese zumi crab, *Malus zumi Calocarpa*, and that spectacular pink beauty, *Malus adstringens*. Or if it is an upright grower we want, the broad columnar Hartwig crab, *Malus hartwigi*, is available.

"Hawthorns could be employed in much the same way as the crab-apples, though the resultant effect would lack the latter's uniformity. The glossy-leaved cockspur thorn, *Crataegus crusgalli*, flowers and fruits freely under city conditions and would be fine for less formal developments. For a more stylized treatment the Washington thorn, *Crataegus phaeopyrum* (syn. *cordata*), is excellent. Uniformly columnar when young, it will in time broaden into a compact globe-shaped specimen. The English hawthorn, *Crategus oxyacantha*, also provides a similar outline at maturity.

"While on the subject of flowering trees we cannot overlook the cherry, which holds the distinction of being the earliest tree to leaf in the arboretum. This is the Amur cherry, *Prunus maackii*, a smooth-barked Manchurian species of good form and excellent foliage. The floral display it puts forth in May is also spectacular, sufficiently so in fact to have resulted in its being called May tree in some localities.

"The European hornbeams are an-

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3000 2 to 3 feet	15.00	125.00
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3000 4 to 6 feet	25.00	200.00
Honeysuckle Bella Albita and Morrowi		
1200 3 to 4 feet	30.00	250.00
Honeysuckle, Tatarian Pink		
1000 2 to 3 feet	25.00	200.00
Privet, Amur River North		
5000 12 to 18 inches, 2 br. and up.....	5.50	45.00
10,000 2 to 3 feet, 2 br. and up.....	12.00	90.00
7500 3 to 4 feet, 4 br. and up.....	15.00	100.00
2000 4 to 5 feet, 5 br. and up.....	20.00	150.00
Spiraea Vanhouttei		
11,000 18 to 24 inches	15.00	100.00
Boston Ivy		
4000 2-year, medium	20.00	150.00
4500 2-year, No. 1	25.00	180.00
1800 2-year, No. 1	30.00	250.00
Barberry Thunbergi		
15,000 3 to 6-inch seedlings	4.00	30.00
Honeysuckle Bella Albita and Morrowi		
10,000 12 to 18 inches, lining-out.....	5.00	40.00
12,000 18 to 24 inches, lining-out.....	6.00	50.00
Salix Nigra (Willow)		
4500 2 to 3 feet, lining-out.....	4.00	30.00
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2000 2-year, No. 1.....	\$ 3.00	\$25.00
5000 2-year, No. 1½	2.50	20.00
Apple Trees		
1000 Red Delicious, 11/16 to 1-inch.....	5.50	50.00
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Bridgman, Michigan

other worthy group of small trees which most certainly merit attention. Holding their foliage throughout most of the winter and keynoted by a remarkable compactness and density of form, they may be relied upon to stay strictly within bounds. The type species, *Carpinus betulus*, develops a round head, the variety *fastigiata*, a narrow pyramidal one, and columnar a slender column.

"Being a regional list, many genera which might warrant recognition in other areas may appear to have been overlooked in this appraisal. Such is not the case, as a number of trees have been purposely omitted for definite reasons. The ashes, for example, because of their brittle wood and scale infestations, the birches and locusts because they are short-lived and subject to borer damage, the catalpas and horse chestnuts by reason of their messiness and the latter's tendency to blight and borers, the poplars because of their brittleness and the havoc their troublesome roots play with sewers and drains, the shagbark hickory for its exasperatingly slow growth, and the sweet gum and tulip tree because of their unreliable hardiness this far north."

**STATE QUARANTINES ON
ELM DISEASE REVOKED.**

Following the revocation of the federal quarantine for Dutch elm disease, reported in the May 1 issue of the American Nurseryman, several states have discontinued quarantines on the disease, recognizing the principle expressed in the federal revocation notice that continuation of the quarantine does not provide practical means of preventing the spread of the disease.

The Connecticut state quarantine was revoked effective May 1, at the same time as the federal quarantine, according to Dr. R. B. Friend, state entomologist and chief entomologist at the Connecticut agricultural experiment station, New Haven. Since Dutch elm disease is present in practically all sections of Connecticut, Dr. Friend has stated that no useful purpose would be served by continuing the state control of intrastate movement of elm nursery stock or elm wood retaining its bark. Regular nursery inspection laws cover the disease, and no diseased trees will be shipped out of the state. Inspection, research and scouting work on the Dutch elm disease will be continued by Connecticut state officials, in cooperation with federal agencies.

Miles Horst, Pennsylvania secretary of agriculture, has announced that the Pennsylvania state quar-

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Blueberry plants.

From \$1000.00 to \$2000.00 per acre taken in from this crop this past summer in Eastern states. New Jersey grows more blueberries than the other states combined. The cultivated blueberry originated in this state.

1-yr. well rooted plants, none better anywhere. \$3.00 per doz.; \$18.00 per 100. 2-yr. 8 to 12 ins., \$5.00 per doz.; \$35.00 per 100. 2-yr. 12 to 15 ins., \$8.00 per doz.; \$60.00 per 100. 3-yr. \$12.00 per doz.; \$90.00 per 100. List sent.

Also Sunset Red Raspberry plants, heavily rooted, carry special raspberry certificate, \$5.00 per 100; \$40.00 per 1000.

WARREN SHINN, Woodbury, N. J.

SMALL FRUIT PLANTS

Evergreens — Shrubs

Asparagus — Rhubarb

Send for Complete Trade List.

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NEW CARLISLE, O.

Nurseries Too, PROFIT by MODERN HANDLING METHODS



Loading shrubs by Rapid-Wheel Conveyor at the Lindley Nurseries, Inc., Greensboro, N. C. This installation has effected a considerable savings in both labor and costs.

Faster handling of plants and shrubs on smooth rolling Rapid-Wheel Conveyors is "paying off" in decreased costs for many progressive nurserymen. One of these, Mr. J. Van Lindley, President of Lindley Nurseries, Inc., says: "With your equipment we are able to load our products on our trucks more rapidly than by methods formerly used—and at a considerable savings in cost. Our plants arrive at their destination in better condition because they are moved from one point to another in our warehouse on your conveyor without having to be handled several times by hand."



Weber Bros., Royal Oak, Michigan, are thoroughly pleased with the way Rapid-Wheel moves their flats of seedlings in and out of the greenhouse and onto trucks for delivery.

RAPID-WHEEL GRAVITY CONVEYORS

. . . Can be set up anywhere in your nursery or greenhouse to convey plants and shrubs easily, efficiently and economically. There are eight standard models, two widths, each model varying in the number of wheels per foot. Standard 5' and 10' sections. Adjustable supports available.

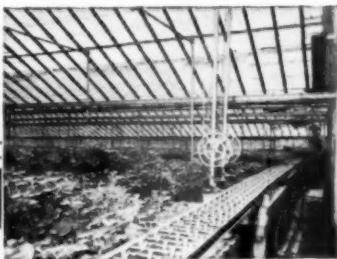
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Rapid-Wheel Conveyor installation in a greenhouse takes up a minimum of space . . . provides easy movement of trays of plants to any part of the greenhouse.



tine on Dutch elm disease was also revoked May 1. The disease is found in the eastern part of Pennsylvania, but has not been found on nursery stock in the state.

MOVING from Newport, R. I., to Middletown, R. I., Joseph E. Medeiros has changed the name of his firm from Joe's Nursery to Plane-View Nursery.

ALTHOUGH the establishment formerly known as Southland Gardens, Inc., at Mobile, Ala., is under the same management, the name was changed recently to Southland Nurseries, Inc.

A NEW lawn and garden supply store and retail nursery have been opened by Ernest E. Summers, at Muncie, Ind. He was in the nursery and landscape business before the war, during which he served for four years with the army overseas.

MAX PFAENDER has opened his own office as landscape architect at Oklahoma City, Okla. Reared in his father's nursery in Minnesota, he became associated with the Classen Co., Oklahoma's oldest real-estate institution, in 1914, as director of the department of land planting and development.

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"Supreme" Quality
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Apricot and Myrobalan Seeds.
1947 Crop.
By ton or car.
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LOVELL PEACH PITS
Nation's Leading Source
Write today for quotations.


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NURSERY COMPANY
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SEEDS

Collectors of Tree, Shrub and Wild Flower Seeds
Crude Drugs and Ornamentals
E. C. MORAN Stanford, Mont.

California Garden Show

The fifteenth annual California spring garden show, April 29 to May 4, in the Exposition Auditorium, Oakland, was notable for the active participation in it by nurserymen of the state. "Fantasia" was the theme taken by Howard Gilkey, the designer of the show, who attempted a modified modern setting for the background, emphasizing color and originality.

No first prize was given among the capital awards. The American Rhododendron Society received the superior (second) award; Gomes Nursery, Oakland, the special (third) award, and McDonnell Nursery, Oakland, the award of merit (fourth).

Gomes Nursery, in a display built around a fountain, combined pink, white, yellow and pale lavender rhododendrons in a spectacular effect.

Toichi Domoto, Hayward, received a blue ribbon in general display competition for a nursery stock display featuring deciduous magnolias. Carried out with effective simplicity, the display also included rhododendrons, with pink and white peonies.

Montclair Nursery, Oakland, received a first prize in general displays for a display of ornamental nursery stock, which included tall spikes of delphinium, azaleas, standard roses, cinerarias and coleuses. The East Bay Nursery, Berkeley, received a blue ribbon in general displays for a display of general nursery stock, with emphasis upon specimen trees, rhododendrons and azaleas. With a patio for the background, gloxinias and calceolarias in attractive arrangements added color.

California Nursery Co., Niles, received first prize for a spring garden designed by a nursery with a landscape department. In the garden were featured spring bulbs, including tulips, and other spring flowers. A garden scene was realistically carried out, with flagstones leading up to a patio. Tall trees and rhododendrons were used in the background.

A decorative display of azaleas, designed in an adapted Chinese manner, brought a first prize to Martin & Overlach, San Francisco. An antique figure of Kuan Yin, under a weeping birch, was the focal point of the display, with azaleas banked around it and a background of natural stone.

Displays of roses, whether shown alone or with other flowers, always attract attention, and this year was no exception. Jackson & Perkins Co., San Jose, received a first prize for

an exhibit of twenty-five roses of one or more polyantha varieties. These were standard roses arranged in the entrance to the outdoor gardens.

East Bay Nursery, Berkeley, received a first prize for an entry of twelve roses of one variety and second for an entry of forty standard roses of assorted varieties. Crombie Nursery, Oakland, received first prize for an entry of a rose garden appropriate to the theme, first for an entry of twelve of one variety of polyantha roses, a first for twelve of two or more varieties and a first for forty standard roses, assorted. Flowerland Nursery, Oakland, received a blue ribbon for an entry of one variety of twenty standard roses.

Clyde Stocking, San Jose, received a blue ribbon for his display of Fantasia, Lady Trent, Peace and Nocturne.

Some years ago the entries in the show became so numerous that it was necessary to take additional space outside and adjoining the building. This year the entries in this section of the show were outstanding. McDonnell Nursery, Oakland, received a special award of merit for a garden designed by Ned S. Rucker. It featured a garden developed as an outdoor-indoor contemporary sleeping

unit, with actual construction on a commodious scale. Carrying out the modern idea of garden and house as an integrated unit, the breakfast room, complete in detail, was separated from the outdoors by full-length glass panels. Adjoining was an outdoor sleeping unit, open on one side, which was connected to the garden by a circular concrete area extending to the lawn.

Carl Purdy, Ukiah, was awarded a first prize for a wild flower garden in simulation of a natural hillside. The E. James Nursery, Oakland, had a rustic entry with rhododendrons, azaleas and coleuses edged with white alyssum. Christensen Nursery Co., Belmont, received second prize for a garden with outdoor dining room, barbecue pit and accessories. Flowers here were bearded blue and yellow irises, banked with rhododendrons.

E. James Nursery received first prize for an outdoor exhibit of ornamental nursery plants and greenhouse pot plants.

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Originators of Azaleas Vuykiana (Hardy Dutch Hybrid Azaleas), large-flowering bloom with foliage; in one white variety and several in nonfading colors.

Propagators and growers of choice nursery stock. All types of Azaleas, Rhododendrons and other broad-leaved Evergreens, Conifers, Roses, Shrubs and Perennials.

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Per 1000

Douglas Fir, 2-yr. seedlings, 2 to 3 ins.	\$30.00
Douglas Fir, 2-yr. seedlings, 1 to 3 ins.	20.00
Black Hills Spruce, 2-yr. seedlings, 1 to 2 ins.	15.00
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Ostrich Plume Ferns, hardy, $\frac{1}{2}$ to 3 ft., multiply by runners. We have repeat orders on these from 30 states. They are a very good salesyard item. Large clumps, \$6.00 per 100.	

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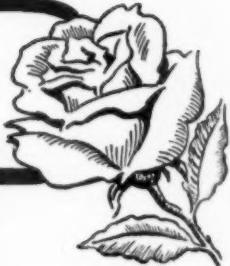
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50c size costs you 30c—\$3.60 per case, to sell for

*\$6.00. 50c size makes 5 gallons spray.

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Send 25c (to cover cost of packing and mailing) for 50c size of CLOTRACIDE.

WHOLESALE! inquiries invited

FAIR EXHIBIT COMMITTEE.

Members of the committee appointed by Charles Armstrong, president of the California Association of Nurserymen, to plan for the first official exhibit of the association at the California state fair, Sacramento, August 28 to September 7, are as follows: Tom Edwards, Montebello; John Armstrong, Ontario; Paul Moulder, Glendale; Bert T. Kallman, Santa Barbara; Paul Kleinsorge, North San Diego; Jack McDonnell, Oakland; Sid Whitehorn, Fresno; Walter Tecklenburg, Lodi; George Roeding, Niles; James Wilson, Millbrae; Jack Evans, Richard Westcott and Paul J. Howard, Los Angeles; W. B. Clarke, Ray Hartman and James F. Clarke, San Jose, and Elmer Merz, Eugene Armstrong, Don Wiese and E. B. Bond, Sacramento.

SPONSOR ROSE SHOW.

The Centinela Valley Nurserymen's Association, which recently became associated with the California Association of Nurserymen, sponsored a 3-day rose show at Greveillea park, Inglewood, Cal., April 25 to 27. Plans for the show were announced by Joseph D. Beeler, association president.

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Ask for quotations on items you
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GULDEMOND'S
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Ask For
Complete List of
Holland-Grown
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Holland-Grown Nursery Stock

Shrubs and Trees,
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Rhododendrons and Azaleas

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NOVELTIES IN ALL LINES

Ask for wholesale catalog.

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We offer for Fall 1947 Nursery Stock

Ask for our wholesale stock list
and prices.Also many varieties of young
stock for growing on.

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Boskoop, Holland

Since 1921 grower and exporter
of reliable nursery stock.

HILTABRAND ADDRESSES REDWOOD EMPIRE GROUP.

The forty-fourth meeting of the Redwood Empire Nurserymen's Association was held at Maison Marin, near Novato, Cal., April 11. The meeting date was changed to coincide with Jack Lincke's visit to the northern part of the state.

Mr. Lincke, executive secretary of the California Association of Nurserymen, was called upon first. He spoke about the program recently promulgated at Fresno and brought up the question of keeping the public aware of the nursery industry. He suggested the use of signs to distinguish nurseries which are members of the California Association of Nurserymen. Attractive enameled steel signs will soon be sent to member nurseries. It is felt that they will build up customer confidence and will stand for good, healthy merchandise at reasonable and practical prices.

Mr. Lincke passed around the two sizes of decals, or transfers, to be sold by the various chapter secretaries, for the inspection of those present. The large size is for windows in nurseries and the smaller size for trucks and cars.

The state secretary wants to find out how the assessors in the various districts assess nursery stock. This is essential for an analysis of taxation. President Robert von Grafen appointed the following members to work on this problem: Donald Perry and Leo Ihle, for Marin county; Mr. King and W. H. Cudaback, for the Napa section, and Henry Martin and Clyde von Grafen, for the Sonoma region.

Leo Ihle, of Birchlane Farm, San Rafael, introduced Wray Hiltabrand, assistant supervisor of nursery service. Mr. Hiltabrand said there was a necessity for an increase in nursery fees, because there are more nurseries in existence now than during the war years, calling for increased personnel, and because of the increase in costs and traveling expenses. There have been 3,500 licenses issued so far this year. The directors of the nursery service have adopted a license fee of \$15 for the main office and \$15 for each branch nursery.

Mr. Hiltabrand enumerated the benefits of the nursery service, as follows: A census of fruit trees which acts as a guide for planting; a uniform inspection between counties, thus making for fewer rejections because of pests; the location and eradication of new pests, and a better relationship between the agricultural commissioner and the nursery.

RICH & SONS NURSERY

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a general line of Nursery Stock. Write for catalog.
Retail catalogs in color available to the trade at cost.
40-page general catalog, 30c
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Apple Seedlings

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**FRUIT TREES
and
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NOTICE

Limited production makes it impossible to book orders for new customers.

HOWARD ROSE COMPANY
Hemet, California

President von Grafen asked Jack Lincke to give some information on the coming state convention, but before doing so, Mr. Lincke suggested that it was possible that in the near future applicants for nursery licenses would be required to take examinations. He noted that this would not apply to those already licensed; so these nurserymen could stop fidget-

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ORNAMENTAL STOCK

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Pioneer seedling growers on the Pacific Coast since 1914.

Specializing in fruit tree seedlings. Angers Rooted Quince Cuttings, Chinese Elm Seedlings, Norway Maple Seedlings and English Privet.

We also have Norway Maples, 3-yr. branched, and Norway Whips and E. W. Birch, 3 yrs. old, well branched.

We aim to please with quality stock.

John Holmason & Sons, Props.

ing. He also stated that the association hopes to work out a uniform set of discounts for gardeners and landscape men. According to Mr. Lincke, the state convention will be held at San Diego, home of famous Balboa park, September 29 to October 1. There will be a good deal of entertainment at this year's convention, and some special events for the

ladies. For the first time in many years, the members will all have accommodations at the same hotel.

Ernest E. Munson, Sec'y.

CALIFORNIA NOTES.

Members of the California Association of Nurserymen are beginning to display membership signs furnished by the association. The signs are part of a campaign to publicize the association.

Shell bark cannot be controlled by any means now known to growers or scientists, according to Dr. E. C. Calaver, pathologist at the citrus experiment station, Riverside.

New varieties of peaches are being developed by William F. Wright, retired United States Department of Agriculture geneticist, on his 1,000-acre ranch near Pala in San Diego county. He is attempting to solve the delayed defoliation problem caused by lack of freezing weather in southern California. While actively employed, Mr. Wright developed many of the popular peach varieties now being grown in the state, such as Fortuna, Shasta, Cortex, Amador, Andora and Nesta.

There were nearly 1,100 nurseries operating in Los Angeles county in 1946, 100 more than there were the year before.

Lee E. Kremer, Pomona, will raise orchids and camellias on a 35-acre place he has purchased in Mendocino county.

There are now about 10,000 acres of noncultivated citrus plantings in California. Weeds are controlled by spraying with petroleum weed killers.

The Garden City Pottery Co., San Jose, is building a \$40,000 building as part of its expansion program.

Construction was recently started on a new research building for the California Fig Institute, Fresno. Research work will be directed by Dr. Robert W. Warner, in cooperation with the United States bureau of entomology and the college of agriculture of the University of California.

A large acreage of the Sacramento valley tomato crop this year was planted with pelleted seeds. These seeds are incased in a material which contains a fertilizer, a fungicide and an insecticide, and it is claimed that about 100 per cent stand is obtained and that the plants are cleaner and grow faster than those from non-pelleted seeds.

Citrus thrips are found in all of the citrus-growing areas in the state, but are a serious problem only in the interior valleys. They cause injury to the fruit and the new growth. Grow-

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306 S. E. 12th AVENUE

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Quality Stock

CONIFERS AND BROAD-LEAVED

EVERGREENS

SHADE AND FLOWERING TREES

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DECIDUOUS SHRUBS

VINES AND BULBS

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From 2½-in. pots. Ready June.
Our list contains very fine va-
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Rubber Budding Strips
Tree and Pot Labels

Write for our Catalog

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GOOD WESTERN-GROWN NURSERY STOCK

Fruit Tree Seedlings
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Our Combination Carlots to
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minimum transportation cost.

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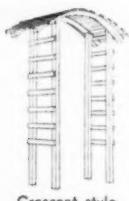
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A graceful trellis for climbing roses or other vines. Sturdily built for firm support, with artistic full fan design that adds interest to house or garden. Shipped in package form, easily assembled, as illustrated. Sizes from 18 ins. to 8 ft.

PANEL TYPE LOC-TITE TRELLISES

Sturdy trellises in collapsible rectangular design. 6 and 8-ft. sizes.



GARDEN ARBORS

Artistic arbors to beautify your garden and lend interest to a variety of plantings. Three attractive styles in varying sizes.

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These items are all manufactured from long-lasting California Redwood. Packaged in space-saving, breakage-resistant, compact form. Quick and simple to assemble, with interlocking construction for durability. Made by a dependable manufacturer of specialty wood products.

AVAILABLE FOR IMMEDIATE SHIPMENT

Write for prices and complete description.



TIMBERLAND PRODUCTS CO.

31 Stevenson Street
San Francisco 5, Calif.

ers and nurserymen should not neglect the newer methods of thrips control which seem to be cheaper and more effective.

Scale tip, a disease which disfigures the scales of lily bulbs, distracting from their appearance and keeping qualities, does not, according to Dr. Frank P. McWhorter, of Oregon State College, Corvallis, lead to unsatisfactory growth when the plants are forced in greenhouses. It is caused by *Colletotrichum lilii*. West coast lily growers are trying to control the disease, as it does cause some loss in the field, but as yet they have found no successful treatment.

Wray Hiltabrand explained the functions of the nursery service to the members of the Superior Nurserymen's Association at its April 14 meeting, which was held at O'Kanes, Sacramento.

San Joaquin valley nurserymen have voted against an increase in the state license fee for nurserymen.

The California agricultural commissioners will hold their annual convention at Riverside, May 20 to 22.

Stephen Vistica, nurseryman and florist at San Mateo, was the speaker at a recent meeting of the San Mateo Garden and Flower Club. His subject was, "Timely Planting at This Time of the Year."

Toichi Domoto, Hayward camellia and peony grower, spoke at a meeting of the San Francisco Businessmen's Garden Club on the new kinds of peonies he has developed in the past ten years.

Bert Bertolero, of McDonnell Nursery, Oakland, recently led a discussion and demonstration on "Seed Sowing at Home" at the Roosevelt Adult Center, Oakland.

Lyon Iris Gardens have moved from Los Angeles to 7041 Woodman avenue, Van Nuys.

Shinault's Feed & Nursery are now located at 1100 East Third street, San Bernardino.

Chemical weed killers that will kill weedy grasses out of broad-leaved crops may soon be available to nurserymen, according to Dr. Virgil H. Freed, of Oregon State College, Corvallis. The active principle in such sprays would be isopropyl phenyl carbonate. The sprays would be a boon to nurseries which are having difficulty in securing pinto tags because of Johnson grass infestations.

W. B. B.

AL ROGAN has been appointed southern California representative of the Nurserymen's Exchange, San Francisco, Cal., according to Carl Pearlstein, owner.

NURSERY LABELS IN 25c PACKS

THE EFFICIENT WAY TO
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Two Hundred 25c Packs That Retail
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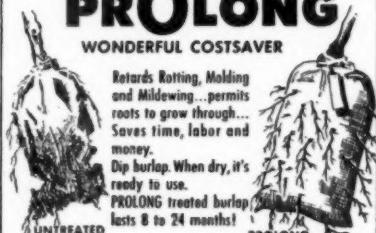
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Wood Feathers (Baled Red Cedar Shavings) are valuable to use when packing bare roots or deciduous stock for shipment because of their large moisture-absorbing capacity. Will keep roots moist in transit or storage. The most economical of packing materials and the easiest to use.

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(CEDAR SHAVINGS)

WM. A. JOHNSTON

408 Postal Bldg., Portland 4, Ore.

ALASKAN NURSERY.

A 5-year development program has been planned by Far North Nurseries, Inc., Anchorage, Alaska, for the growing of hardy stock suited to the various climatic areas of Alaska. The business is owned by Mr. and Mrs. Dan L. Lappala and Mr. and Mrs. Carl Martin, of Anchorage, and active management and operation of the business has been assumed by Mr. Lappala, who previously was in business as the Alaskan Nurseryman.

While stock for this year's sales is being shipped from the Northwest Nursery Co., Valley City, N. D., a nursery is being developed two miles south of Anchorage to serve as a growing field, sales ground and distribution point. The major portion of the stock for the nursery is being shipped by air from Minneapolis, Minn., and Portland, Ore. Three thousand hybrid tea roses were recently flown from Portland, Ore., and placed in storage for spring sales.

The nursery plans to inaugurate a north-testing service, whereby it will conduct hardiness trials of plants sent from the United States. The trials will run for a 3-year period, and behavior reports will be made on each item in the spring and fall. Another interesting feature is the long-term program of collecting native Alaskan plant materials for shipment to botanical gardens, arboreta and park boards. Propagating stocks of unusual and desirable native plants will be introduced to the trade.

A DAUGHTER; Lynn Ann, was born, March 19, to Willis and Joan Stribling, of Stribling's Nurseries, Merced, Cal.

J. LYNN MOSSHOLDER, who operates the Mossholder Nursery, El Monte, Cal., with his brother, Denver L. Mossholder, has devised a new nursery plant-canning machine, now being manufactured under the name of the Mossholder Plant Canner.

AFTER completion of his schooling this June, when both he and his wife will be graduated from Oregon State College, Roy Carter will continue his association with Carter's San Fernando Nursery, San Fernando, Cal., operated by his father, Henry W. Carter.

CELEBRATING its sixtieth anniversary this year, Winsel-Gibbs Seed & Nursery Co., Los Angeles, Cal., was established in 1887. Robert A. Gibbs, cofounder and present owner, is assisted in the business by his son, James A. Gibbs, recently discharged from service with the navy.

*Attention ORCHID GROWERS
... AND NURSERYMEN!*

MORE PROFIT FROM YOUR GREENHOUSE!

- Under-bench installation of the Patented CHRISTENSEN MIST SPRAY, as shown above, controls the relative humidity within 2 per cent—day or night.
- Over-bench installation for propagation of seedlings and cuttings, in greenhouses, lath houses and cold frames; irrigation and cooling of plants both indoors and outdoors.
- The fine mist produced by the Christensen Mist Spray gently irrigates and humidifies delicate plants and seedlings without washing away soil or destroying delicate foliage. Further, the finely divided moisture dissolves oxygen from the air and that oxygenated mist inhibits plant disease appreciably.
- The Christensen Mist Spray is without an equal in its ability to atomize water with the aid of water pressure alone.
- Inquire today. Give us the size of your greenhouse—we will give you the details of installation free of charge.
- Price: Enamelled, noncorrosive spray heads—\$2.95 each. Postage extra.
- Order direct (or through dealer).

Christensen MIST SPRAY

PACIFIC WESTERN ENGINEERING COMPANY
3165 EAST SLAUSON AVENUE, LOS ANGELES 11

**HYPONEX PLANT FOOD****CLEAN—ODORLESS—SOLUBLE—POWDER**

USE HYPONEX to grow bigger and better flowers and vegetables in poorest soil—even in sand, cinders or water. Excellent fertilizer for trees, shrubs, lawns and all plants.

USE HYPONEX for top-dressing seedlings, cuttings and transplants. Produce strong root systems and stems, also more and larger flowers and fruit.

SELL HYPONEX to your customers. Nationally advertised.

1-oz. packet	10¢—packed 71 to case—wt. 7 lbs.
3-oz. can	25¢—packed 36 to case—wt. 12 lbs.
7-oz. can	50¢—packed 12 to case—wt. 24 lbs.
1-lb. drum	\$1.00—packed 12 to case—wt. 16 lbs.
10-lb. drum \$8—25 lbs. \$15—50 lbs. \$25—100 lbs. \$40	

Commercial growers and dealers receive 33-1/3% discount from the above retail prices.

GUY HYPONEX from your jobber or send \$1 for 1 lb. (makes 100 gallons). \$1 credited on first order for 1 drum or case.

HYDROPONIC CHEMICAL COMPANY, Inc.
315 West 39th Street, New York 18, N. Y.

GOODRICH RUBBER BUDDING STRIPS

Prewar quality.
Made from natural rubber.

Eleven sizes available.
Immediate or later delivery.
Samples and prices on request.

WILLIS NURSERY CO.
Ottawa, Kansas

CLASSIFIED ADS

25 cents per line.

Minimum order, \$2.00.

BERRY PLANTS

CULTIVATED BLUEBERRY PLANTS
 Returns last summer were from \$100.00 to \$2000. per acre for the growers of these berries. 1 yr. plants, \$3.00 per doz.; \$18.00 per 100; 2-yr., 12 to 16 ins. high, \$8.00 per doz.; \$60.00 per 100; 3-yr., \$12.00 per doz.; \$90.00 per 100. List sent.

WARREN SHINN, Woodbury, N. J.

RED SUNRISE RASPBERRY PLANTS
 Superb stock, heavily rooted. Carry special New Jersey Raspberry certificate. None better. \$5.00 per 100; \$40.00 per 1000.

WARREN SHINN, Woodbury, N. J.

SPECIAL WEYMOUTH BLUEBERRY PLANTS
 2-yr., \$15.00 per doz.
 WARREN SHINN, Woodbury, N. J.

BULBS and TUBERS

SPECIAL GLADIOLUS SALE

	Per 1000
5000 Margaret Fulton, No. 1	\$26.00
7000 Maid of Orleans, No. 3	17.00
4000 Ross Van Lima, No. 1	27.00
5000 Picardy, No. 1	27.50
10,000 Picardy, No. 3	19.00
5000 Dr. Bennett, No. 1	27.00
5000 Snowprincess, No. 3	18.00
2000 Polar Ice, No. 3	23.00
10,000 Beacon, No. 3	18.00
10,000 Maid of Orleans, No. 1	28.00
5000 Miss Bloomington, No. 1	27.00
Cash, or C.O.D.	

HOWARD STREET PANSY GARDENS
 P. O. Box 963 Kalamazoo 99, Mich.

QUALITY LILY BULBS
 Per 100
 Lilium Rubrum, 16 to 18 cm. \$4.00
 Lilium Henryi, 22 to 25 cm. 30.00
 Lilium Regale, 5 to 6 cm. 8.50
 Lilium Regale, 6 to 7 cm. 10.50
 Lilium Regale, 7 to 8 cm. 13.00
 Lilium Regale, 8 to 9 cm. 18.00
 Cash, or C.O.D.

MONARCH PLANT FARMS
 Kalamazoo 99, Mich.

CANNA BULBS, \$5.00 per 100; \$40.00 per 1000.

Pennsylvania (orange and red), Red King Humbert (red), Yellow King Humbert (yellow), Hungaria (pink).
BENTON COUNTY NURSERY CO., INC.
 Rogers, Arkansas

Yellow Gem Dahlias, \$12.00 per 100.
 Mixed Dahlias, \$9.00 per 100.
BENTON COUNTY NURSERY CO., INC.
 Rogers, Arkansas

EVERGREENS

JUST ARRIVED FROM HOLLAND
HEALTHY, HARDY IMPORTED
LINING-OUT STOCK

10 to 49,	50 to 100,	each	each

Acer Pal. Atropurpureum, 1-yr., T. layers, 10 to 15 ins. \$1.35 \$1.25

Azalea Pontica (Hardy Ghent), named varieties, mixed colors, 2 to 3-yr. grafts, 10 to 12 ins. 1.50 1.35

Azalea Mollis Hybrids, named varieties, mixed colors, 2 to 3-yr. grafts, 10 to 12 ins. 1.50 1.35

Azalea Mollis J. C. Van Tol (clear red), Hugo Hardyzier (bright red), s.d.s., 8 to 10 ins.85 .75

Pieris Japonica (Andromeda), 12 to 15 ins. 1.35 1.25

Rhododendron Hybrids, Album Elegans, Catawbiensis Bournei, Caractacus, Carvallo, Catawbiense Grandiflorum, Everestianum, Godman, Parsons Gloriosum, Parsons Grandiflorum, Lee's Dark Purple, Rosmarinifolia Roseum Superbum, Van der Hoop, Van Weerden Poeiman, 2 to 3-yr. grafts, 10 to 18 ins. 1.50 1.35

For immediate shipment. A good buy of strong, healthy plants. Only the best shipped to us and to you. Not less than 3 of a variety in Rhododendrons. Please send cash with your order.

JOHN VERMEULEN & SON, INC.
 Westbury, L. I., N. Y.

EVERGREEN, SHRUBS
 Rhododendron Maximum, Mt. Laurel, Hemlock, Azalea, Red Maple and Dogwood; 8 to 18 ins. \$2.00 per 25; \$7.00 per 100; 2 to 4 ft., \$3.00 per 10; \$6.00 per 25; \$20.00 per 100. Clumps, 2 to 3 ft., \$1.00 each.

NORMAN SMITH

R. F. D. No. 3 Butler, Tenn.

LINING-OUT STOCK

1-yr. rooted cuttings from field beds.		
1000 Ret. plumosa aurea	\$12.00	\$110.00
100 Ret. flifera aurea	15.00
200 Ret. flifera, green	12.00
200 Ret. pisifera aurea	15.00
1000 Thuja occ. compacta	12.00	110.00
400 Thuja occ. Hohey	12.00	110.00
500 Thuja occ. globosa	12.00	110.00
3000 Taxus cuspidata, spreading	12.00	110.00
2000 Taxus cuspidata, upright	15.00	140.00
200 Juniperus pfitzeriana	17.50
1000 Callicarpa purpurea	5.00	40.00
500 Spiraea prunifolia	5.00	45.00
2000 Deutzia Lemoinei	5.00	45.00
2000 Deutzia gracilis	5.00	45.00

Rooted Cuttings From Greenhouse

1000 Ret. plumosa aurea	8.00	75.00
1000 Ret. plumosa, green	10.00	90.00
2000 Taxus cuspidata, spreading	10.00	90.00
2000 Taxus cuspidata, upright	12.00	110.00
500 Taxus cuspidata, broadfolia	12.00	110.00
200 Taxus cuspidata intermedia	12.00	110.00
200 Taxus cuspidata hirsutissima	12.00	110.00
500 Juniperus sin. pfitzeriana	15.00
1000 Thuja occ. globosa	10.00	90.00
2000 Thuja occ. compacta	10.00	90.00
400 Thuja occ. Hohey	10.00	90.00
200 Thuja occ. Peabody	12.00	110.00
500 Tsuga canadensis, 2-yr. seedlings	10.00

BROUWER'S NURSERIES
 624 Montauk Ave. New London, Conn.

CAMELLIAS, 2 1/2-IN. POTS.

Our next stock will be ready for shipment in June. These cannot be too highly recommended as plants that are grown for one purpose only, and that to supply our trade with Camellias that have been grown with exceptional care and attention. We have a good selection to offer, a few of which are listed here. Complete list on request.

Covina \$0.25 Grande Fl. Rosea \$0.50

Clarke's Red 25 Monarch50

Pink Perfection 25 Rhapsody50

Valverada 25 Rose Queen50

Purity 35 Boleen's No. 10160

Briar Rose 40 Brillant60

Hugh Evans 40 Chandlier Elegans60

Jordan's Pride 40 Dia Kagura60

P. Bacciochi 40 Blood of China75

Bella Romana 50 Pope Plus75

Add 2c per plant packing charge.

L. E. COOKE CO. San Gabriel, Cal.

225 COLORADO SPRUCE

	10 rate - each
Green	\$1.90
Blue	\$4.25
1 1/2 to 2 ft., xxx, B&B	2.75
2 to 2 1/2 ft., xxx, B&B	5.50
2 1/2 to 3 ft., xxx, B&B	7.00
3 to 3 1/2 ft., xxx, B&B	8.75
3 1/2 to 4 ft., xxx, B&B	10.00
4 to 5 ft., xxx, B&B	11.00

100 NORWAY SPRUCE

	\$1.50
2 to 2 1/2 ft., xxx, B&B	2.25
2 1/2 to 3 ft., xxx, B&B	2.75
3 to 3 1/2 ft., xxx, B&B	3.75
3 1/2 to 4 ft., xxx, B&B	4.50

F.O.B. Nursery. Beetle Zone only. Truck delivery within 125 miles at cost.

BROOKFIELD GARDENS

Route 6 Delaware, N. J.

LINING-OUT STOCK

	Per 100	Per 1000
Taxus cuspidata	\$20.00	\$180.00
1-yr. 3-in. pot.	25.00	225.00
5 to 10 ins. tr.	35.00	325.00
Taxus Intermedia	20.00	180.00
1-yr. 2 1/2-in. pot.	25.00	225.00
1-yr. 3-in. pot.	25.00	225.00
8 to 10 ins. tr.	35.00	325.00
10 to 15 ins. tr.	50.00	500.00

COTTAGE GARDENS, Lansing 15, Mich.

LINING-OUT STOCK

	Per 1000
Fachysandra Terminalis	\$4.00
Red Jap. Maple, pot gr., grafts	75.00
Andromedea Jap., pot gr. R.C.	25.00
Taxus Cuspidata, 1-yr. bedded	15.00
Taxus Capitata, 1-yr. bedded	25.00
Taxus Hicksii, 1-yr. bedded	15.00
Taxus Hatfieldii, 1-yr. bedded	17.50
Taxus Brevifolia, 1-yr. bedded	20.00
Tsuga Canadensis, 2-yr. tr.	7.00

Complete list of liners, including Azaleas, Rhododendrons, etc., on demand.

VERKADE'S NURSERIES, Wayne, N. J.

Azalea Hexe, Christmas Cheer, Pink Pearl, Hinodegiri, strong transplants, \$17.50 per 100.

Azalea Mollis, 2-year transplants, \$15.00 per 100.

Rhododendron, 2-year transplants, Catawbiense, Ponticum and Discolor hybrids, \$25.00 per 100.

Accumulated order of 500 or more, 10 per cent discount. Less than 50, 20 per cent plus. Crating free. Cash with order, please.

RICHARD P. RESSEL
 Mulino, Oregon

Write for our list of Azaleas, Rhododendrons, Boxwood.

LEVICK NURSERY CO. Bridgeton, N. J.

R. F. D. 3

ROOTED CUTTINGS FOR SPRING

	Per 100
2000 Taxus media brownii	\$9.00
2000 Taxus cuspidata nana	11.00
4000 Taxus cuspidata	8.50
4000 Taxus cuspidata capitata	15.00
2000 Taxus media hatfieldii	10.00
7000 Taxus cuspidata nigra	8.50

Cash with order.

SUNNYBROOK FARMS NURSERY
 Chesterland, Ohio

3000 CANADA HEMLOCK, XXX, B&B, clay loam.

1 1/2 to 2 ft., \$1.50; 2 to 2 1/2 ft., \$2.00; 2 1/2 to 3 ft., \$2.50; 3 to 3 1/2 ft., \$3.00; 3 1/2 to 4 ft., \$4.00.

Will trade for assorted pyramidal evergreens if your stock is not in the beetle zone. Due to labor shortage, notify date you send truck.

DAVID KANEFF NURSERY

Route 375 Marietta, Ohio

ROOTED EVERGREEN CUTTINGS

	Per 100
Pfitzer Juniper	\$10.00
Irish Juniper	8.00
Andorra Juniper	10.00
Pyramidal Arborvitae	10.00
Stricta Juniper	9.00
Retinosa	8.00

May Delivery

SANDERS GREENHOUSE and NURSERY

R. D. No. 1 Monongahela, Pa.

ROOTED EVERGREEN CUTTINGS

	Per 100
Taxus cuspidata	\$10.00
Taxus cuspidata capitata	12.00
Taxus cuspidata erecta	12.00
Taxus Intermedia	12.00
Taxus media hatfieldii	12.00
Taxus media hicksii	10.00

NEW INTRODUCTION

AZALEA HINO-CRIMSON
 Showy, clean, crimson-red, nonflaking foliage. Excellent forcer. A cross between Hinodegiri and Amoena and harder than Hinodegiri. Ask for color photo. From 2 1/2-in. pots, \$25.00 per 100; limit, 250. Cash with order.

JOHN VERMEULEN & SON, INC.

Westbury, L. I., N. Y.

CHRISTMAS TREE LINERS

	\$30.00 per 1000
--	------------------

FRUIT TREES

MINNESOTA APPLES AND PLUMS		
Prairie Spy	4 to 5 ft.	6 to 7 ft.
	75c	85c
Haralson	60c	65c
Minion	65c	85c
Chestnut Crab	85c	..
Dolgo Crab	65c	75c
Hopa Crab	85c	90c
Minn. No. 790	65c	75c
Plums: Sapa, Waneta, Underwood, Kahaha, Monitor, 4 to 6 ft. 75c. Wholesale lots and cash only.		
SWEDEBERG NURSERY, Battle Lake, Minn.		

HARDY GRAFTED NUT TREES

Crath, Carpathian, English Walnut, Black Walnut, Butternut, Heartnut. Orders for less than 10 not accepted. Price list on request.

BERNATH'S NURSERY

R. D. 1 Poughkeepsie, N. Y.
PRUNUS PISSARDI—1 to 1½-in. cal., 6 to 7 ft. \$17.50 per 10; \$160.00 per 100.

WAYNESBORO NURSERIES
Waynesboro, Va.

GRASS

"CENTIPEDE" LAWN GRASS

No Mowing Needed

Only grass known which doesn't need mowing. Plant in old or new lawns. Plant any time weather not freezing. Write card for wholesale circular.

CENTIPEDE NURSERY

Route 4 Jackson, Miss.

HARDY PLANTS

PHLOX

These plants are one-year, hardy field-grown. All bloomed last year in the nursery row. Available for immediate shipment. Plants are in cold storage, in excellent condition for planting.

100 rate applies on orders of 30 or more of one variety.

Per 100

Annie Laurie. Rich, deep salmon....\$15.00

Antoinette Six. A beautiful new pure white variety.....18.00

Apollo Red. Deep rose-red, shaded crimson.....15.00

Apollo White. Splendid white, large individual flowers.....15.00

Brilliant. Scarlet with darker eye....12.00

Caroline Vandenberg. A fascinating shade of lilac-blue.....15.00

Champs Elysees. Rich purple.....12.00

Charles Curtis. Sunset-red. Excellent new variety.....15.00

Daily Sketch. Lustrous pink with crimson-rose eye.....15.00

Franz Dr. Klemm. White, diffused violet eye.....12.00

E. I. Farrington. Salmon-pink.....14.00

Enchantress. Bright salmon-pink with a dark eye.....15.00

Eva Forester (Salmon Beauty). Bright salmon-rose with light center.....15.00

Fairy King. The loveliest lavender.....18.00

F. G. Von Lassburg. A tall white Phlox.....12.00

Gen. Petain. Deep wine-red.....14.00

Gen. Van Heutz. Brilliant salmon-red color, pure white center.....14.00

Graf Zeppelin. Ivory-white flowers with vermillion-red eyes.....14.00

Hauptmann Koehl. Glowing full-toned red.....15.00

Irene. Cherry-red. Very new.....18.00

Jules Sandeau. Rosy-pink. Large pani-clusters.....12.00

July Lights. Flowers rarely, forest shaded soft red with bloodshot eye.....15.00

Mrs. Ethel Pritchard. Self shade rose-mauve, large flowers.....12.00

Painted Lady. Appealing peach color with a pink blush.....15.00

Pantheon. A deep salmon-rose.....15.00

P. D. Williams. Brilliant pink with rose center. Extra-large florets.....15.00

Prime Minister. Extra-large florets of clear white with violet eyes.....14.00

Progress. Superb light blue, set off with deeper purple-blue eyes.....18.00

Purple Heart. Flowers large size. Color brilliant shade of deep blue-purple.....15.00

Von new.....20.00

Rhineland. A beautiful salmon-pink with carmine eye.....12.00

Rosenberg. Deep salmon-pink, dark center.....12.00

Ruby Lee. Extra-large plum-red flowers. New variety. Prolific bloomer.....20.00

Silvertone. Florets pale lavender with a glowing purple eye.....14.00

Starlight. Rich violet, with perfectly shaped white star in center.....15.00

Wm. Kesseler. Deep plum-purple, shading to dainty lilac eye.....12.00

Terms: Cash or satisfactory references.

MOUNT ARBOR NURSERIES

Shenandoah, Iowa

One of America's Foremost Nurseries

E. S. Welch, President

VINCA MINOR.

Good, strong, healthy plants, 8 to 12 ins. tall, 8 to 12 vines to a clump. Well packed for shipment.

Clumps: \$10.00 per 100; \$95.00 per 1000.

SYLVANIA NURSERY & PEAT CO.

New Galilee, Pa.

CHRYSANTHEMUMS
New and Better Hardy Chrysanthemums of Merit.

Especially selected for their outstanding garden value, their usefulness as a cut flower and their brilliant and distinctive color and shades.

Rooted Cuttings Potted Plants

Dox. 100 10 100

Barbara Small \$1.50 \$10.00 \$2.00 \$15.00

Bokhara 2.50 18.00 5.00 45.00

Candlelight 2.50 18.00 3.00 25.00

Charles Nye 2.50 18.00 3.00 25.00

Chippewa 2.00 15.00 2.50 20.00

Courageous 3.00 20.00 3.50 30.00

Lavender Lady 1.25 8.00 1.50 12.00

Min. Chiang Kai-shek, Pat. 634 4.50 30.00

C. R. Hastings 1.50 10.00 2.00 15.00

Mrs. Sam P. Rotan 1.25 8.00 2.00 15.00

My Lady 2.00 15.00 2.50 20.00

Olive Longland 2.50 18.00 3.00 25.00

Polar Ice 1.50 10.00 2.00 15.00

Red Riding Hood 1.50 10.00 2.00 15.00

September Dawn 1.50 10.00 2.00 15.00

Southwind 5.00

White Wonder 5.00 45.00

Zantha (Goldilocks), 1.50 10.00 2.00 15.00

Medium-sized Double Varieties

Aviator 2.50 18.00 3.00 25.00

Calcite 2.50 18.00 3.00 25.00

Harbor Lights 1.50 10.00 2.00 15.00

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Single and Semidouble Varieties

California Red 1.25 8.00 1.50 12.00

Dubonnet 1.50 10.00 2.00 15.00

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Ida Brewster 2.50 18.00 3.00 25.00

North Star 1.50 10.00 2.00 15.00

Sigurd 1.25 8.00 1.50 12.00

Summertime, Pat. 639 5.00 45.00

Winsome 2.50 18.00 3.00 25.00

Pompons

Capt. R. H. Cook 1.25 8.00 1.50 12.00

Fred R. Rockwell, Pat. applied for 5.00 45.00

Goblin 1.25 8.00 1.50 12.00

Orchid Jewell 2.00 15.00 2.50 20.00

Pink Doty 1.25 8.00 1.50 12.00

Ruby Pompon 1.50 10.00 2.00 15.00

White Doty 1.25 8.00 1.50 12.00

White Jewell 2.00 15.00 2.50 20.00

Cushion Pompons

Dwarf Jewell 3.00 20.00 3.50 30.00

September Gold 1.25 8.00 1.50 12.00

Sunbeam 1.50 10.00 2.00 15.00

Azalea or Cushion Mums

Apricot Glow 2.50 18.00 3.00 25.00

Aurora 3.00 20.00 3.50 30.00

Nasha 2.00 15.00 2.50 20.00

Spiritle 2.00 15.00 2.50 20.00

Serene (White) 1.50 10.00 2.00 15.00

Yel. Cushion Sup. 2.50 18.00 3.00 25.00

Send for our complete wholesale list featuring many other varieties of Hardy Chrysanthemums, as well as a complete line of new and better Hardy Plants.

CARROLL GARDENS

Westminster, Md.

NEW HARDY EARLY-BLOOMING MUMS

Every nurseryman should grow an assortment of these fine hardy chrysanthemums, as no other item is comparable in producing quick profits.

Our assortments include the New Minnesota, University of Chicago, English and other proved introductions. All selected for hardiness, showy colors, combined with an early, long blooming season.

Our test gardens here in Kansas, where many rigorous winters and hot dry summers are experienced, prove the stamina and prolificness of varieties we grow and sell in these assortments.

You will like our selection of these fine mums which include all types and colors. A gorgeous blooming up-to-date assortment, all labeled true-to-name varieties.

Rooted cuttings ready now or later.

25 Named Var. 2 ea. 50 plants...\$ 6.50

25 Named Var. 5 ea. 125 plants...\$ 12.00

25 Named Var. 10 ea. 250 plants...\$ 20.00

25 Named Var. 20 ea. 500 plants...\$ 35.00

50 Named Var. 2 ea. 100 plants...\$ 10.00

50 Named Var. 5 ea. 250 plants...\$ 20.00

50 Named Var. 10 ea. 500 plants...\$ 35.00

100 Named Var. 2 ea. 200 plants...\$ 20.00

100 Named Var. 5 ea. 500 plants...\$ 37.50

100 Named Var. 10 ea. 1000 plants...\$ 70.00

Potted 2-in. Bird-Vita-Bands

All labeled (Equal to 2½-in. Clay Pots)

If you order now and request shipment at planting-out time, plants will be hardened outside, ready for field. This saves the busy nurseryman much labor and expense, besides assuring 100 per cent growth of thrifty blooming plants for fall sales.

25 Named Var. 2 ea. 50 plants...\$ 8.00

25 Named Var. 5 ea. 125 plants...\$ 18.00

25 Named Var. 10 ea. 250 plants...\$ 35.00

50 Named Var. 2 ea. 100 plants...\$ 15.00

50 Named Var. 5 ea. 250 plants...\$ 35.00

50 Named Var. 10 ea. 500 plants...\$ 65.00

100 Named Var. 2 ea. 200 plants...\$ 30.00

100 Named Var. 5 ea. 500 plants...\$ 65.00

100 Named Var. 10 ea. 1000 plants...\$ 125.00

Please remit with order. No credit accounts.

Descriptive list on request.

PRairie SWARF FLORETTUM

R. F. D. 1, Box 103 Fall River, Kan.

HARDY FIELD-GROWN PERENNIALS OF FIRST QUALITY

All are in the field. Shipment can be made promptly.

AQUILEGIA LONGISSIMA. Yellow. Delicate yellow with extra-long spurs. Fragrant and fine. \$1.50 per 10; \$12.00 per 100.

CARNATION HARDY GRENADE. The hardiest of the Carnations. Very double and very free-flowering; extremely fragrant. Salmon Queen, Golden Sun, King of the Blacks, Rose Queen, Scarlet, White and Yellow. \$1.25 per 10; \$10.00 per 100.

LAVENDULA VERA MUNSTEAD STRAIN. True perennial Sweet Lavender. Extra-fine, heavy plants. \$1.75 per 10; \$15.00 per 100.

HARDY CHRYSANTHEMUMS

FIELD CLUMPS

These are not divisions, but all are 1 and 2-year-old FIELD CLUMPS. They are just right for particular customers. Free of disease and of first quality. \$1.75 per 10; \$15.00 per 100.

AUTUMN LIGHTS

Very hardy, semidouble, coppery-bronze and orange.

EARLY BRONZE. An early-flowering pompon with beautiful orange-bronze bloom. GOBLIN. 2-inch blooms of warm bronze, shading to sparkling gold.

GOLDEN CHARM. Double golden-yellow blooms completely cover this thrifty grower.

LAVENDER LADY. Very double, free-flowering, true lavender.

PINK CHARM. Clean 3-inch blooms on strong stems. Pink, with bright yellow center. Strong grower, medium height.

PINK CUSHION. Dwarf plant with hundreds of orchid-pink blooms.

PYGMY GOLD. Fine dwarf, clean golden-yellow pompon, about 1 inch in diameter.

ROSE GLOW. Raspberry-rose-pink. Very neat appearing.

RUTH CUMMINGS. An old-timer, but good. Fine reddish-bronze.

SANTA CLAUS. Large red blooms on a dwarf plant, usually classed with the cushion mums.

SEPTEMBER CHARM. Yellow, or light bronze, with 2½-inch blooms on good stems. Early bloomer and good grower.

SONNY BOY. Early-blooming yellow pompon. Well named.

APPALACHIAN NURSERIES

Waynesboro, Pa.

ROOTED CUTTINGS OF HARDY MUMS

\$1.00 per 10.

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A few years ago, I bought the Munson nursery, of Denison, Tex., since T. V. Munson and his son, Will B. Munson, had both passed away, and the management of the nursery had proved too much of a burden to the son's widow. I bought it to secure the strains of fine grapes which Mr. Munson had created, the better ones of which have all been preserved and are being grown at the Texas experiment station for grapes, at Montague.

Among other things that came into my possession with the nursery were some old catalogs. I have before me the catalog put out by T. V. Munson & Sons Nursery in 1896-1897, the back of which shows the various medals and awards which Mr. Munson had received from the American Pomological Society, the World's 1885 Industrial Cotton Centennial Exposition of New Orleans and the government of France, dated 1889.

The thing that interests me most about this catalog is the prices, which I judge were representative of the nursery trade in the gay nineties. Peaches and apples were 10 cents for the 3 to 4-foot grade, and the 4 to 6-foot grade was 15 cents. Then there were discounts of fifteen per cent if you ordered \$5 worth of stock; if the order amounted to \$20, you were entitled to twenty-five per cent discount, and if your order amounted to \$40 or more, you were entitled to forty per cent discount. If the order amounted to \$60, you were entitled to wholesale rates, which were not quoted. This would mean that if you ordered \$40 worth of peach trees or apple trees, you could buy the 3 to 4-foot grade at 6 cents and the 4 to 6-foot grade for 9 cents.

Another interesting thing about this catalog is the number of varieties listed of the different fruits. Mr. Munson listed forty varieties of apple, thirteen varieties of pear, six varieties of almond, ten varieties of apricot, fifty-one varieties of peach, forty-one varieties of plum and sixty-five varieties of grape.

Among other things stressed in this catalog was the fact that the company had a telephone. It was felt that the customer could well afford to leave the selection of varieties to Mr. Munson, because of his knowledge of their adaptation. He stated that he was anxious to make all plants the customers bought successful ones; that the propagation methods were those used by the largest, most intelligent and most successful growers, and that the nursery had no patent

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vice-presidents, Louis Bromfield, Lucas, O.; Russell A. Firestone, Akron, O.; Paul H. Jones, Dearborn, Mich., and Lindon M. King, Minneapolis, Minn.; treasurer, Ray P. Foote, New York city, and executive secretary, Andrew S. Wing, New York city. Two trustees, Rodney Brandon and G. Fred Rieman, Muncie, Ind., were also elected.

OBITUARY.

William N. Craig.

William N. Craig, an outstanding figure in horticulture, died April 26 at his home, at Weymouth, Mass. He was 83 years old and had continued to be actively interested in the trade after his retirement from business in January, 1946.

Mr. Craig was born at Levens Hall, Westmoreland, England, of Scotch parents, and came to America at the age of 26. He was in charge of private estates at Framingham Center and Brookline, Mass.

When 60 years old, he started a nursery business of his own at Weymouth. He was an able lecturer and writer on horticultural topics. An outstanding authority on lilies, he was the author of the book, "Lilies and Their Culture in North America," now out of print.

Mr. Craig was a member of many horticultural organizations and had earlier been active in local nurserymen's associations.

Surviving are his widow, Mrs. Mae C. Craig, and a son, Norman, of California.

Harold S. Mabie.

Harold S. Mabie, 65, manager of the Middletown, N. J., experimental seed farm of Peter Henderson & Co., New York, died at Red Bank, N. J., in the Riverview hospital, April 17. His home was at Red Bank.

Mr. Mabie was born at Hackensack, N. J., and had been in charge of the seed farm for many years. Surviving him are his widow, Ethel; two sons, John H., Wantagh, L. I., and Floyd H., North Arlington, N. J., and a brother, Charles H. Mabie, Hackensack.

CONNECTICUT COMMITTEES.

Arthur E. Webster, A. N. Pierson, Inc., Cromwell, Conn., president of the Connecticut Nurserymen's Association, has announced committee appointments for 1947, as follows:

Executive and legislative—Edward Kelly, chairman; Thomas D. Faulkner, Henry Verkade and Robert Bennerup.

Program—Ted Hall, chairman; William Scott, and Robert Hutt.

Membership—E. D. Robinson, chair-

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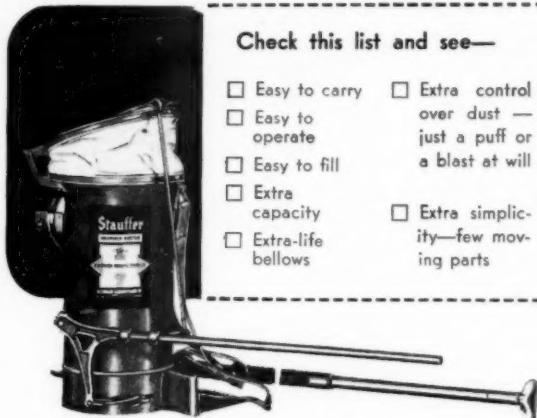
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Uses any dust—any powder insecticide or fungicide (also dust weedicides).

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man; Erwin Whitham, and John Leghorn. Resolutions—Robert Marshall, chairman, and Ludwig Hoffman.

Constitution and bylaws—Wellington Kennedy, chairman; J. M. Woodcock, and Charles Steele.

Publicity—Erwin Whitham, chairman, and Earl Herrick.

State highway landscape—E. M. Brown, chairman; Neal Millane, Peter Cascio and Stewart Willson.

On the experiment station committee, Alex Cumming, chairman, and Fred Baker are serving for three years; Earl Herrick and Wellington Kennedy, for two years, and Alec Stovekin, for one year.

Erwin Whitham, chairman, and Alex Cumming are serving for three years on the college relations committee; Louis Vanderbrook and Henry Verkade, for two years, and Peter Cascio, for one year.

As chairman of the public relations committee, Louis Vanderbrook is assisted by J. M. Woodcock and Dick Van Heiningen.

PROPERTY of a nursery and florists' business recently purchased by Mr. and Mrs. James E. Newman from Miss Rose Mary Dickinson, at 2657 Lamar, Memphis, Tenn., includes a modern California studio-style apartment with a small greenhouse attached.

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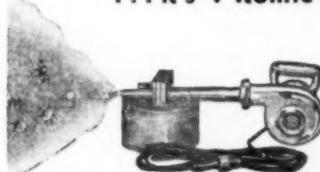
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Write for details

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PLANT NOTES.

[Continued from page 14.]

cies by the French botanist Villars, as the result of a few minor technical differences. The stem leaves of *C. rotundifolia* are entire, while those of *C. scheuchzeri* are distinctly serrate, and the flower buds of the former are erect, while they nod in the latter. These differentiating characteristics tend to disappear after two or three generations have been grown from seeds under garden conditions, and all that one has left is *C. rotundifolia* in various guises. It is not surprising to find, then, that very few of the plants seen in gardens under the label of *C. scheuchzeri* possess the characteristics used by Villars in establishing that species.

The foregoing observations seem to hold true, too, when the other forms of *C. rotundifolia*—baumgarteni, lapponica, carnica, arctica, valdensis, hosti and velutina, to name a few—are brought under cultivation for a few years. Unless one has plants which have been propagated vegetatively from botanically correct material, he is scarcely justified in selling any of the species and varieties which have emerged from *C. rotundifolia*.

C. rotundifolia, in its various forms, should be one of the most important garden plants in the genus. It has all the good points, including ease of culture, beauty and long blooming period, which are a part of the really great. It is as easy to grow from seeds as any small-seeded plant and may be readily increased from cuttings or divisions. Different growers have different methods for growing cuttings. Personally, I like to pull the clumps apart just as they are coming into active growth in spring, rooting the species in the usual way.

Hutchinsia Alpina.

A New York reader in a recent letter tells me that repeated efforts with *Hutchinsia alpina* have only led to failure and asks for advice on its culture. I suspect that one, or perhaps both, of the two important points in its culture—moisture and tenderness to cold—may be at fault. I give below my opinion of the plant and its cultural needs as they have developed here in northern Michigan.

This little crucifer is a delightful mat for cool, partly shaded rock-work, growing from one to three inches high and producing myriads of small white cross flowers for close to two months in spring. It seems never to have attained much popularity in this country, having the reputation of being rather difficult to grow. As a matter of fact, it is quite

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easy to handle under eastern conditions if its need for moisture is understood and supplied. The idea that the plant would do well in any sunny situation probably came from English writers, but growing conditions here are far different than they are in the

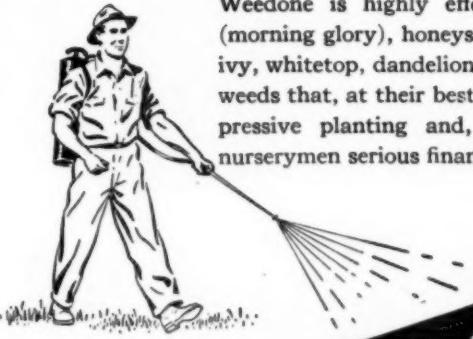
British Isles. We of the middle west, at least, have to give it some shade, in the absence of moisture. In addition to its use in rock gardens, it makes, because of its shallow-rooting habit, an excellent ground cover for small, hardy bulbs, if its need for

a fair amount of moisture can be supplied. It is an easy plant that might become popular if gardeners were shown the plant in actual use, were told about its culture and were warned to protect it with evergreen boughs in snowless winters. Like most crucifers, it comes readily from seeds and may also be grown with ease from cuttings.

Two Native Geraniums.

Geraniums are among the most neglected of all large groups of easily grown hardy plants, scarcely more than half a dozen of the 250 known species being found in American lists. And I still insist that commercial growers are missing many opportunities by this neglect. Not all this vast number need be grown, of course, and not even a majority of them, but there are literally scores of really good garden plants to be found in the genus, some of them American. Of the American forms I think it would pay you to investigate *G. incisum* and *G. nervosum* when you are selecting the crane's-bill section of your plant list. In my opinion, the former is to be numbered among the best of hardy geraniums, being surpassed by not more than four of the exotic species that I know. Material that I had, which came from the southern part of the plant's range, was not reliably hardy in unprotected spots in this garden, though it survived our severest winters if it was protected with a covering of snow until spring. No doubt material from its northern habitats (it grows as far north as Alaska) would be perfectly hardy anywhere in the United States. Plants of the species vary both in stature and color of flower, according to observers in the northwest. Material grown here was fairly constant as to height, remaining around ten to twelve inches, and showed little deviation from a light purple, revealing none of the rose or pink shades reported by some. Perhaps seeds from a number of sources or from a garden where variations are present would give one a wider selection of colors. The best of these could be multiplied by vegetative means, adding, no doubt, to the usefulness of the species. As it stands now, *G. incisum* is a splendid plant for rock garden or border in sun, if the climate is cool, or in part shade in hotter sections. I suspect it would do better in most parts of the east if it had a little shade.

Almost as desirable is *G. nervosum*, a 12 to 15-inch plant from the Rockies. Here it did well in full sun and dry soil, blooming profusely for a month or more in spring and con-



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tinuing intermittently throughout the summer, with white flowers veined with narrow lines of reddish-violet.

All geraniums are easily grown from seeds, which usually germinate over a quite long period, some coming within a few days, while others of the same lot may stay underground for months. In view of that fact, it is well to give the seeds ample space, so seedlings can be pricked out without disturbing the sleepers. They may also be increased from divisions. In my experience it is best to do this in early spring by pulling the tufts apart, leaving each piece with a few roots attached. Cuttings taken with a heel also root readily in spring, just as the plants are starting into growth, or in winter from forced plants.

Iris Dichotoma.

A beginner in commercial plant growing asks for a report on the vesper iris, *I. dichotoma*. I can do no better than give a note written about fifteen years ago which is as good today as it was then.

Iris dichotoma, a fall-blooming iris, seems to be making little headway in gardens, if its absence from commercial lists is an indication of conditions. This apathy of growers and gardeners toward the plant probably can be traced to the fact that it is often spoken of in the literature as a biennial, and few folks would care to grow an iris which lasts only two years. Let me assure you, however, that an experience of close to ten years allows me to state positively that it is not a biennial as it behaves here. On the other hand, there are clumps here now that are seven years old which are more vigorous than they were in their second year. I cannot say that it is as long-lived under all conditions, but its behavior here tells me it is an important addition to the list of late summer (August and September) bloomers.

The flowers are generally orchid-lavender, though they may be creamy-white to purple. It is true that they are small and rather short-lived as individuals, but they are produced continuously for close to two months and at a season when color in the garden is appreciated. In our light soil *I. dichotoma* grows two feet tall or slightly taller, but I have seen it reach three feet in rich soil. It is then said to be rather short-lived.

Gypsophila Fratensis.

A plant of *Gypsophila fratensis*, a baby's breath, introduced into heat some time ago for propagating experiments, is now in flower, reminding me that growers who do not possess this engaging little plant are missing a good sales item. Although



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some botanists dispute the plant's right to a specific name, I notice that the latest edition of Hortus gives it the credit of being a horticultural form. I am not prepared to discuss that phase, but I do know that it is a perfectly distinct form of baby's breath which possesses more than the ordinary amount of garden value. Though it resembles *G. repens* in some ways, it is a much more restrained grower in material that I have had from several sources. The



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Season—Reduces Losses



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flower color is a clear pink of pleasing shade, and it blooms here in the open from June to frost. It has come quite true from seeds in our trials. Gypsophilas do not move easily while in

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No. N-149—50-ft. rolls (wt. 6 lbs.) Each 8.79
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MENTION THE AMERICAN NURSERYMAN

active growth, as most growers know without being told; so one should have small pot-grown plants ready to meet the demand when customers see this one in bloom.

NEW OATS INTRODUCED.

A new oats named Forvic, combining the better qualities of Forward, a large, late white oats with a high reputation in northern Wisconsin, and of Vicland, a recent Wisconsin introduction which has proved superior to other varieties, has been developed by the Wisconsin agricultural experiment station, at Madison, Wis. Forvic, which was developed by H. L. Shands, D. C. Arny and C. W. Schaller, was expected to replace even the popular Vicland in large acreages when seeds of the new variety began to appear on the market in the fall of 1946. Forvic is an approximately nine per cent better yielder than Vicland, and not only produces more grain, but also considerably more straw. Both Forvic and Vicland are especially resistant to diseases, including smuts, stem rust and leaf rust.

C. A. DUNLAY, proprietor of Fairwood Nursery, Fairbanks, Tex., is back in the nursery business.

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WHEEL HOE CO.
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HOLLIES.

[Continued from page 8.]

too, *Ilex aquifolium afructo-luteo*, or as it is sometimes called, *bacciflava*. This plant makes a beautiful bush. It is spiny, and the leaves are glossy.

Hodginsi, *polycarpa* and *pendula* are other forms of *I. aquifolium* well worth growing. And there is a white-fruited variety, too, but we do not have that one; so I know little about it.

I recently received from a friend of mine several varieties of English, or as we call it, common holly. One of the daintiest and finest of all the hollies I have ever seen is the *Ilex aquifolium chinensis*, which comes from central China and does not resemble the standard type of holly. It has smaller leaves, very spiny, but slightly softer in texture than the ordinary *aquifolium*. Close and compact growing, with more lanceolate leaves, it is indeed a gem. As to its hardness, I cannot say a thing, because I have not planted it out yet.

Ilex cornuta.

There are many other valuable hollies besides the varieties of *I. aquifolium* already mentioned. One that is ornamental and has proved hardy here, to my great surprise, is *Ilex cornuta*, the horned holly. It is found in various parts of China and was discovered by Robert Fortune in 1846 in the neighborhood of Shanghai.

The horned holly is an interesting one. The leaves have only five spines, but they are sharp and pronounced. The plant grows compact and shapely and has a rounded outline. The berries, which are large and a bright red color, are produced in profusion.

There are two varieties of this holly, *Ilex cornuta burfordii* and *Ilex cornuta foemina*. They look rather similar and may be spineless, armed with only one spine at the extreme point or armed with two small spines near the apex. They are both ornamental plants and have the same big, beautiful berries as the main species.

Ilex pernyi.

Another holly that also comes from China is *Ilex pernyi*. It was named in honor of a French missionary, Paul Perny, and it was described for the first time around 1880. But it was not before much later that the plant came to be known as a cultivated variety, and it was "Chinese" Wilson who sent seeds to England for Messrs. Veitch, for which firm Mr. Wilson collected at that time.

Ilex pernyi grows into a small tree or big bush of about twelve to fifteen

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The above is a picture of one of our 7-foot Rocker Type Tree Movers, owned and operated by the Laur Shade Tree Service, St. Louis, Mo. The tree is a large sugar maple weighing slightly more than five tons. This is the third mover purchased from us by this company.

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feet. It is a rather slow grower, but dense and bushy; it retains its pyramidal shape, at least for a while. The leaves are small, armed with spines and dark green and glossy on the upper surface, while the underside is pale green. The berries are unusual-

ly large and borne in the leaf axis; it is a most striking plant in full berry. Care must be used in picking the berries, or the whole leaf under the berry may be pulled off.

We have at Elizabethtown the hybrid between *Ilex aquifolium* and

pernyi, by the name of *Ilex aquipernyi*. Fortunately we have both male and female forms. It is a beautiful evergreen holly, with leaves twice as big as those of pernyi but smaller than those of aquifolium. In shape the leaves are like those of pernyi, but they are not so closely set on the branches. This hybrid I consider one of the best hollies in cultivation. There is a named variety of this, Brilliant, which has bigger and brighter berries.

A holly closely related to pernyi, but faster-growing and with bigger and brighter berries, is the species *Ilex ciliostiposa*. It is one that is not described well in any literature. The leaves are broad and lanceolate, with small spines that are not very pronounced or sharp. The berries are produced in abundance, several together in the leaf axis, and are red. *Ilex ciliostiposa* grows to about fifteen feet as a small tree or big bush, according to treatment when young. It is a good holly and one that is often erroneously named *fargesi*, which is a holly with leaves four to six inches long, narrow, lanceolate and not at all like those of *ciliostiposa*.

Two hollies that look more like evergreen privets than hollies are *sugericola* and *yunnanensis*. The *sugericola* is not common in cultivation and grows into a spreading bush with light green, ovate leaves and bright, scarlet solitary fruits. As a large plant it is handsome. The *yunnanensis* looks like a robust crenata, but the leaves are more rounded and glossier than those of the latter.

[Continued in next issue.]

A. C. P. TYLER, Beaumont, Tex., drove to Chicago with his wife, sister and brother-in-law at the beginning of May for a three weeks' vacation trip.

CHESTER LUKE was recently appointed manager of the Classen Nursery Co., Oklahoma City, Okla. A new greenhouse has been added to the facilities of the firm.

SHERMAN P. HOLLISTER, professor emeritus of horticulture at the University of Connecticut, Storrs, was presented with the Connecticut Tree Protective Association's annual award of merit at its silver jubilee meeting, at Bridgeport, last January. The award was made for his outstanding contributions to tree care and horticulture. Professor Hollister recently became assistant director of the Bartlett school of tree surgery, Stamford, Conn.

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"RAINS OVER ALL"

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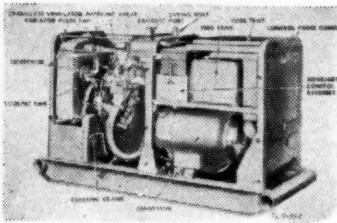
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THE AMERICAN COLOR AND CHEMICAL CO.
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BUDWOOD CERTIFICATION.

[Continued from page 9.]

locate established trees or grow a suitable source of budwood for each variety.

The selected trees must be examined and later indexed according to a standard plan. If they are believed to be free from disease, they may be registered. The trees must be in bearing, and examinations are to be repeated each year. No top-worked trees may be registered. The following procedures for registration are suggested:

Peaches—in fruiting condition, for freedom from peach wart, yellows, little peach and red suture; at appropriate time for expression of Western-X disease, yellow bud mosaic, peach mosaic, Eastern-X disease, phony peach and peach rosette.

Cherries—in fruiting condition, for freedom from albino cherry, little cherry, California buckskin, deep suture and pink fruit of sour cherry; at appropriate season for expression of rusty mottle, rasp leaf and crinkle. It is suggested to index into Bing all varieties excepting Bing and Royal Ann for mottle leaf and all except Bing for twisted leaf.

Apricots—in fruiting condition for freedom from ring pox.

Plums and prunes—in later part of fruiting period.

The presence of any symptoms indicative of virus should be a basis for refusal of registration, even though none of the diseases listed is present. The handbook of virus diseases of stone fruits is regarded as standard.

All selected trees must be examined by qualified authorities at fruiting time for trueness to type and variety.

All trees selected must be marked with a code number by painting it on the trunk in a conspicuous manner with orange paint. Records will be maintained showing the name and address of applicant, location of property, location of tree on property, date of inspections or re-inspections and date and registration number. The inspection agency would issue a registration card to the applicant when registration is granted and would furnish duplicate registration records to appropriate officials.

Registration would be subject to cancellation at any time a registered tree developed or showed a disease which would prevent it from meeting registration specifications: The registration agency would issue a standard shipping sticker to cooperating nurserymen for attachment to shipments.

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The nurserymen's favorite Bamboo Stakes. Due to arrive early in June.

5 ft., 5/8 to 3/4-in.,	Per bale
packed 250 per bale...	\$22.00
6 ft., 3/4 to 7/8-in.,	
packed 200 per bale...	21.00
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packed 150 per bale...	26.00

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tion wood for these varieties from registered trees and maintain the identity of nursery stock from each source tree by attaching the registration number to each lot of nursery stock.

Collection of Scion Wood.

All scion wood must be taken under the general supervision of designated inspectors.

Fruit tree propagating wood may not be brought into the state of Washington without written approval of the state department of agriculture. Budwood may not be taken or shipped either within or without the state without such approval.

Growing Grounds.

All virus-infected trees are to be removed promptly from the nursery grounds and from within 100 feet of the growing fruit tree stock. All seedling stock must be examined before it is budded and undesirable stock removed.

Each variety and/or budwood source (as to mother tree) must be staked properly.

Growing nursery stock must be examined, and diseased, seedling or undesirable stock rogued at once. In addition to the regular inspection of scion wood trees for trueness to va-

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riety, the growing stock will be inspected in the nursery for trueness to variety. This phase of the work will first be used for cherries and expanded to other fruits as experience and personnel permit.

The inspectors will have access to all stock at any time and will be instructed to remove or have removed virus-diseased trees or those showing bud-perpetuated abnormalities. Nurserymen must rogue diseased or off-type trees also.

The nurserymen will furnish to the state department of agriculture by October 30 of each year a complete record of all fruit trees propagated, the understock used, the source of budwood used and a map locating by blocks and varieties the trees in the nursery.

Certificates for reshipment of nursery stock are permitted, provided the origin of rooted trees and budwood sources are established. Continued identity must be maintained to the satisfaction of the certifying inspector, and all requirements of this nursery improvement plan must be met constantly.

The state department of agriculture will have on file the complete information on nursery examinations and records pertaining to the scion wood source for all nurseries. This information will not be available to other nurserymen.

The complete observance of all provisions in this plan is not possible at present. In order to further the program most of the provisions would be entirely on a voluntary basis for at least a 2-year period. As the plan unfolded and necessary changes developed, it would become mandatory to follow a revised plan strictly.

CATALOGS RECEIVED.

I. E. Ilgenfritz' Sons Co., Monroe, Mich.—One hundredth anniversary wholesale price list of general nursery stock; 50 pages and covers, 5x8 inches.

Nurserymen's Exchange, San Francisco 3, Cal.—Wholesale list of plants, bulbs, seeds and miscellaneous supplies; 55 pages and covers, 3½x9 inches.

Calapooia Berry Farm & Nursery, Shedd, Ore.—Wholesale price list of berry plants and small fruits; 4 pages and covers, 6x9 inches. Retail catalog of berry plants and general nursery stock; illustrated, 26 pages, 8x11 inches.

Oak Park Nurseries, East Patchogue, N. Y.—Catalog of general nursery stock, no prices given; illustrated, 26 pages, 7x10 inches.

The Kindig Nursery, Elkhart, Ind.—Retail catalog of dahlias and miscellaneous plants; 20 pages, 5½x8 inches.

THE broken leg of Fred Shoopsmith, Southside Nurseries, Richmond, Va., is healing nicely.

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	No. 0	No. 1	No. 2	No. 3
Height	5½ ins.	6½ ins.	9½ ins.	9 ins.
Diam. Top	5 ins.	6 ins.	7 ins.	8 ins.
Bottom Diam.	4½ ins.	5½ ins.	6½ ins.	7½ ins.
Corresponding Clay Pot	6-in.	7-in.	8-in.	9-in.
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Per 100	\$2.75	\$4.00	\$1.50	\$5.00
Per 1000	\$25.00	\$37.50	\$42.50	\$47.50

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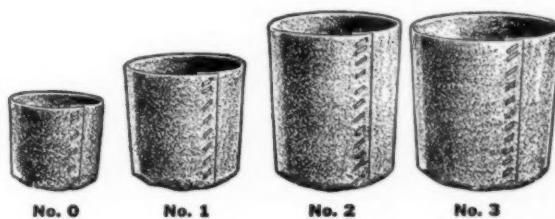
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D. Hill Nursery, Spring, 1947

This Spring has changed our ideas of nursery operation, but even the strongest language of our finest exponents hasn't changed the rain situation one little bit.

We hope that by the time this is in print (We said this in the last issue, too!), all of our orders will be shipped, and that we can serve you well with those few of our Evergreens not floating down the Mississippi River.

D. HILL NURSERY COMPANY

Evergreen Specialists

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